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Administration

Petroleum Supply Monthly

with data for December 2016

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Preface

The Petroleum Supply Monthly (PSM) is the monthly component of a series of three publications produced by the Office of Petroleum and Biofuels Statistics of the U.S. Energy Information Administration (EIA). The other two components are the Weekly Petroleum Status Report (WPSR) and the Petroleum Supply Annual (PSA). Together these publications present comprehensive petroleum and biofuel supply data on a weekly, monthly and annual basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply. Included are: petroleum refiners, motor gasoline blenders, oxygenate producers, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of crude oil, petroleum products, and biofuels. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

Scope of data

The PSM presents statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District levels, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources including federal and state agencies.

Sections

- U.S. supply and disposition of crude oil, petroleum products, and biofuels
- Regional supply and disposition of crude oil, petroleum products, and biofuels
- Crude oil supply and disposition and production by state
- Natural Gas Processing
- Refinery Operations
- Imports of residual fuel oil by state of entry
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- Imports by country of origin
- Exports
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- Movements of crude oil, petroleum products, and biofuels

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Table 1. U.S. Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	272,284	--	--	243,664	5,357	-4,310	511,924	13,691	0	1,179,414
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	103,676	-693	10,050	6,364	--	-31,163	20,742	44,920	84,898	203,466
Pentanes Plus	12,403	-693	--	4	--	-752	4,297	4,749	3,420	25,032
Liquefied Petroleum Gases	91,273	--	10,050	6,360	--	-30,411	16,445	40,171	81,478	178,434
Ethane/Ethylene	37,781	--	100	--	--	-1,204	--	4,276	34,809	54,005
Propane/Propylene	34,713	--	18,428	5,342	--	-16,813	--	32,661	42,635	84,096
Normal Butane/Butylene	9,063	--	-7,929	747	--	-12,806	9,926	3,065	1,696	32,208
Isobutane/Isobutylene	9,716	--	-549	271	--	412	6,519	169	2,338	8,125
Other Liquids	--	37,925	--	34,047	-4,290	2,135	54,354	11,822	-629	318,105
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	37,929	--	3,521	1,990	2,172	37,117	4,151	0	28,401
Hydrogen	--	--	--	--	7,075	--	7,075	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,062	--	291	-269	253	95	1,736	0	1,477
Renewable Fuels (including Fuel Ethanol) ...	--	35,867	--	3,225	-4,851	1,925	29,901	2,415	0	26,907
Fuel Ethanol ⁵	--	32,467	--	--	-1,695	395	28,043	2,334	0	19,531
Renewable Fuels Except Fuel Ethanol	--	3,400	--	3,225	-3,156	1,530	1,858	80	0	7,376
Other Hydrocarbons	--	--	--	5	35	-6	46	--	0	17
Unfinished Oils	--	--	--	13,876	--	-2,251	12,138	4,618	-629	80,582
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-4	--	16,650	-6,280	2,222	5,091	3,053	0	209,113
Reformulated	--	--	--	6,681	8,268	2,226	12,722	1	0	52,149
Conventional	--	-4	--	9,969	-14,548	-4	-7,631	3,052	0	156,964
Aviation Gasoline Blend. Comp.	--	--	--	--	--	-8	8	--	0	9
Finished Petroleum Products	--	95	612,490	20,173	11,458	10,306	--	98,818	535,092	329,671
Finished Motor Gasoline	--	95	310,472	896	7,975	2,085	--	28,750	288,603	28,610
Reformulated	--	--	99,821	--	-7,740	3	--	--	92,078	47
Conventional	--	95	210,651	896	15,715	2,082	--	28,750	196,524	28,563
Finished Aviation Gasoline	--	--	338	29	--	70	--	--	297	994
Kerosene-Type Jet Fuel	--	--	51,221	4,034	--	-1,988	--	6,122	51,121	42,776
Kerosene	--	--	445	224	--	-10	--	13	666	2,261
Distillate Fuel Oil ⁵	--	--	159,879	5,178	3,483	5,283	--	37,415	125,843	165,456
15 ppm sulfur and under	--	--	148,073	3,864	3,483	6,269	--	31,516	117,635	143,020
Greater than 15 ppm to 500 ppm sulfur	--	--	4,452	44	--	-463	--	4,934	25	8,822
Greater than 500 ppm sulfur	--	--	7,354	1,270	--	-523	--	964	8,183	13,614
Residual Fuel Oil ⁶	--	--	12,428	6,067	--	980	--	7,535	9,980	41,543
Less than 0.31 percent sulfur	--	--	1,755	199	--	110	--	NA	NA	3,471
0.31 to 1.00 percent sulfur	--	--	1,660	411	--	132	--	NA	NA	9,072
Greater than 1.00 percent sulfur	--	--	9,013	5,457	--	738	--	NA	NA	28,994
Petrochemical Feedstocks	--	--	9,654	848	--	-94	--	--	10,596	3,240
Naphtha for Petro. Feed. Use	--	--	6,138	809	--	-52	--	--	6,999	2,011
Other Oils for Petro. Feed. Use	--	--	3,516	39	--	-42	--	--	3,597	1,229
Special Naphthas	--	--	1,006	300	--	-104	--	--	1,410	1,218
Lubricants	--	--	4,930	1,069	--	-113	--	2,354	3,758	12,375
Waxes	--	--	124	185	--	37	--	119	153	671
Petroleum Coke	--	--	29,251	311	--	1,426	--	15,943	12,193	6,983
Marketable	--	--	21,976	311	--	1,426	--	15,943	4,918	6,983
Catalyst	--	--	7,275	--	--	--	--	--	7,275	--
Asphalt and Road Oil	--	--	8,312	1,031	--	2,871	--	449	6,023	22,866
Still Gas	--	--	21,426	--	--	--	--	--	21,426	--
Miscellaneous Products	--	--	3,004	1	--	-137	--	117	3,025	678
Total	375,960	37,327	622,540	304,248	12,525	-23,032	587,020	169,251	619,361	2,030,656

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 2. U.S. Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels)

Commodity	Supply					Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³	
Crude Oil⁴	3,248,548	--	--	2,883,117	23,535	35,030	5,929,919	190,252	0	1,179,414
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	1,272,873	-7,877	228,642	59,534	--	6,193	195,508	439,324	912,147	203,466
Pentanes Plus	158,426	-7,877	--	3,208	--	4,489	53,453	71,920	23,895	25,032
Liquefied Petroleum Gases	1,114,447	--	228,642	56,326	--	1,704	142,055	367,403	888,253	178,434
Ethane/Ethylene	458,460	--	1,491	43	--	20,077	--	34,700	405,217	54,005
Propane/Propylene	424,284	--	213,288	47,815	--	-12,569	--	291,395	406,561	84,096
Normal Butane/Butylene	117,435	--	16,832	4,853	--	-5,301	64,388	39,136	40,897	32,208
Isobutane/Isobutylene	114,268	--	-2,969	3,615	--	-503	77,667	2,172	35,578	8,125
Other Liquids	--	428,585	--	476,971	79,480	2,208	812,824	181,514	-11,510	318,105
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	428,633	--	26,898	37,519	1,644	438,637	52,769	0	28,401
Hydrogen	--	--	--	--	79,585	--	79,585	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	26,617	--	3,981	-3,221	550	1,062	25,765	0	1,477
Renewable Fuels (including Fuel Ethanol) ...	--	402,016	--	22,663	-39,024	1,119	357,532	27,004	0	26,907
Fuel Ethanol ⁵	--	364,979	--	862	-8,092	-1,907	334,745	24,911	0	19,531
Renewable Fuels Except Fuel Ethanol	--	37,037	--	21,801	-30,932	3,026	22,787	2,093	0	7,376
Other Hydrocarbons	--	--	--	254	179	-25	458	--	0	17
Unfinished Oils	--	--	--	211,306	--	-2,043	143,704	81,097	-11,452	80,582
Motor Gasoline Blend.Comp. (MGBC) ⁵	--	-48	--	238,767	41,961	2,606	230,426	47,648	0	209,113
Reformulated	--	--	--	69,841	68,252	1,287	136,757	49	0	52,149
Conventional	--	-48	--	168,926	-26,291	1,319	93,669	47,599	0	156,964
Aviation Gasoline Blend. Comp.	--	--	--	--	--	1	57	--	-58	9
Finished Petroleum Products	--	1,040	7,115,244	261,773	-1,510	4,541	--	1,087,612	6,284,394	329,671
Finished Motor Gasoline	--	1,040	3,655,886	21,644	-33,869	157	--	231,043	3,413,501	28,610
Reformulated	--	--	1,187,451	--	-68,495	17	--	--	1,118,939	47
Conventional	--	1,040	2,468,435	21,644	34,626	140	--	231,043	2,294,562	28,563
Finished Aviation Gasoline	--	--	4,059	110	--	116	--	--	4,053	994
Kerosene-Type Jet Fuel	--	--	601,198	53,780	--	2,520	--	64,510	587,948	42,776
Kerosene	--	--	4,744	855	--	-318	--	3,284	2,633	2,261
Distillate Fuel Oil ⁵	--	--	1,773,138	53,757	32,359	4,715	--	435,481	1,419,059	165,456
15 ppm sulfur and under	--	--	1,656,583	36,138	32,359	6,158	--	368,706	1,350,216	143,020
Greater than 15 ppm to 500 ppm sulfur	--	--	43,920	1,638	--	446	--	42,731	2,381	8,822
Greater than 500 ppm sulfur	--	--	72,635	15,981	--	-1,889	--	24,044	66,461	13,614
Residual Fuel Oil ⁶	--	--	153,202	82,168	--	-646	--	105,389	130,627	41,543
Less than 0.31 percent sulfur	--	--	17,578	3,968	--	-750	--	NA	NA	3,471
0.31 to 1.00 percent sulfur	--	--	18,334	9,482	--	3,194	--	NA	NA	9,072
Greater than 1.00 percent sulfur	--	--	117,290	68,718	--	-3,090	--	NA	NA	28,994
Petrochemical Feedstocks	--	--	106,663	11,452	--	-20	--	--	118,135	3,240
Naphtha for Petro. Feed. Use	--	--	70,184	9,601	--	-65	--	--	79,850	2,011
Other Oils for Petro. Feed. Use	--	--	36,479	1,851	--	45	--	--	38,285	1,229
Special Naphthas	--	--	12,640	5,063	--	-118	--	--	17,821	1,218
Lubricants	--	--	60,628	14,185	--	-1,079	--	28,494	47,398	12,375
Waxes	--	--	1,734	1,815	--	98	--	1,299	2,152	671
Petroleum Coke	--	--	332,876	3,572	--	930	--	210,232	125,286	6,983
Marketable	--	--	247,524	3,572	--	930	--	210,232	39,934	6,983
Catalyst	--	--	85,352	--	--	--	--	--	85,352	--
Asphalt and Road Oil	--	--	121,089	13,358	--	-1,716	--	7,338	128,825	22,866
Still Gas	--	--	254,155	--	--	--	--	--	254,155	--
Miscellaneous Products	--	--	33,232	14	--	-98	--	542	32,802	678
Total	4,521,421	421,748	7,343,886	3,681,395	101,505	47,972	6,938,251	1,898,701	7,185,031	2,030,656

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 3. U.S. Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjustments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil⁴	8,783	--	--	7,860	173	-139	16,514	442	0
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	3,344	-22	324	205	--	-1,005	669	1,449	2,739
Pentanes Plus	400	-22	--	0	--	-24	139	153	110
Liquefied Petroleum Gases	2,944	--	324	205	--	-981	530	1,296	2,628
Ethane/Ethylene	1,219	--	3	--	--	-39	--	138	1,123
Propane/Propylene	1,120	--	594	172	--	-542	--	1,054	1,375
Normal Butane/Butylene	292	--	-256	24	--	-413	320	99	55
Isobutane/Isobutylene	313	--	-18	9	--	13	210	5	75
Other Liquids	--	1,223	--	1,098	-138	69	1,753	381	-20
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,224	--	114	64	70	1,197	134	0
Hydrogen	--	--	--	--	228	--	228	--	0
Oxygenates (excluding Fuel Ethanol)	--	67	--	9	-9	8	3	56	0
Renewable Fuels (including Fuel Ethanol)	--	1,157	--	104	-156	62	965	78	0
Fuel Ethanol	--	1,047	--	--	-55	13	905	75	0
Renewable Fuels Except Fuel Ethanol	--	110	--	104	-102	49	60	3	0
Other Hydrocarbons	--	--	--	0	1	0	1	--	0
Unfinished Oils	--	--	--	448	--	-73	392	149	-20
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	537	-203	72	164	98	0
Reformulated	--	--	--	216	267	72	410	0	0
Conventional	--	0	--	322	-469	0	-246	98	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	19,758	651	370	332	--	3,188	17,261
Finished Motor Gasoline	--	3	10,015	29	257	67	--	927	9,310
Reformulated	--	--	3,220	--	-250	0	--	--	2,970
Conventional	--	3	6,795	29	507	67	--	927	6,339
Finished Aviation Gasoline	--	--	11	1	--	2	--	--	10
Kerosene-Type Jet Fuel	--	--	1,652	130	--	-64	--	197	1,649
Kerosene	--	--	14	7	--	0	--	0	21
Distillate Fuel Oil ⁵	--	--	5,157	167	112	170	--	1,207	4,059
15 ppm sulfur and under	--	--	4,777	125	112	202	--	1,017	3,795
Greater than 15 ppm to 500 ppm sulfur	--	--	144	1	--	-15	--	159	1
Greater than 500 ppm sulfur	--	--	237	41	--	-17	--	31	264
Residual Fuel Oil ⁶	--	--	401	196	--	32	--	243	322
Less than 0.31 percent sulfur	--	--	57	6	--	4	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	54	13	--	4	--	NA	NA
Greater than 1.00 percent sulfur	--	--	291	176	--	24	--	NA	NA
Petrochemical Feedstocks	--	--	311	27	--	-3	--	--	342
Naphtha for Petro. Feed. Use	--	--	198	26	--	-2	--	--	226
Other Oils for Petro. Feed. Use	--	--	113	1	--	-1	--	--	116
Special Naphthas	--	--	32	10	--	-3	--	--	45
Lubricants	--	--	159	34	--	-4	--	76	121
Waxes	--	--	4	6	--	1	--	4	5
Petroleum Coke	--	--	944	10	--	46	--	514	393
Marketable	--	--	709	10	--	46	--	514	159
Catalyst	--	--	235	--	--	--	--	--	235
Asphalt and Road Oil	--	--	268	33	--	93	--	14	194
Still Gas	--	--	691	--	--	--	--	--	691
Miscellaneous Products	--	--	97	0	--	-4	--	4	98
Total	12,128	1,204	20,082	9,814	404	-743	18,936	5,460	19,979

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 4. U.S. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels per Day)

Commodity	Supply					Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports	Adjust-ments ¹	Stock Change ²	Refinery and Blender Net Inputs	Exports	Products Supplied ³
Crude Oil ⁴	8,876	--	--	7,877	64	96	16,202	520	0
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	3,478	-22	625	163	--	17	534	1,200	2,492
Pentanes Plus	433	-22	--	9	--	12	146	197	65
Liquefied Petroleum Gases	3,045	--	625	154	--	5	388	1,004	2,427
Ethane/Ethylene	1,253	--	4	0	--	55	--	95	1,107
Propane/Propylene	1,159	--	583	131	--	-34	--	796	1,111
Normal Butane/Butylene	321	--	46	13	--	-14	176	107	112
Isobutane/Isobutylene	312	--	-8	10	--	-1	212	6	97
Other Liquids	--	1,171	--	1,303	217	6	2,221	496	-31
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,171	--	73	103	4	1,198	144	0
Hydrogen	--	--	--	--	217	--	217	--	0
Oxygenates (excluding Fuel Ethanol)	--	73	--	11	-9	2	3	70	0
Renewable Fuels (including Fuel Ethanol) ...	--	1,098	--	62	-107	3	977	74	0
Fuel Ethanol	--	997	--	2	-22	-5	915	68	0
Renewable Fuels Except Fuel Ethanol	--	101	--	60	-85	8	62	6	0
Other Hydrocarbons	--	--	--	1	0	0	1	--	0
Unfinished Oils	--	--	--	577	--	-6	393	222	-31
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	652	115	7	630	130	0
Reformulated	--	--	--	191	186	4	374	0	0
Conventional	--	0	--	462	-72	4	256	130	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	3	19,441	715	-4	12	--	2,972	17,170
Finished Motor Gasoline	--	3	9,989	59	-93	0	--	631	9,327
Reformulated	--	--	3,244	--	-187	0	--	--	3,057
Conventional	--	3	6,744	59	95	0	--	631	6,269
Finished Aviation Gasoline	--	--	11	0	--	0	--	--	11
Kerosene-Type Jet Fuel	--	--	1,643	147	--	7	--	176	1,606
Kerosene	--	--	13	2	--	-1	--	9	7
Distillate Fuel Oil ⁵	--	--	4,845	147	88	13	--	1,190	3,877
15 ppm sulfur and under	--	--	4,526	99	88	17	--	1,007	3,689
Greater than 15 ppm to 500 ppm sulfur	--	--	120	4	--	1	--	117	7
Greater than 500 ppm sulfur	--	--	198	44	--	-5	--	66	182
Residual Fuel Oil ⁶	--	--	419	225	--	-2	--	288	357
Less than 0.31 percent sulfur	--	--	48	11	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	50	26	--	9	--	NA	NA
Greater than 1.00 percent sulfur	--	--	320	188	--	-8	--	NA	NA
Petrochemical Feedstocks	--	--	291	31	--	0	--	--	323
Naphtha for Petro. Feed. Use	--	--	192	26	--	0	--	--	218
Other Oils for Petro. Feed. Use	--	--	100	5	--	0	--	--	105
Special Naphthas	--	--	35	14	--	0	--	--	49
Lubricants	--	--	166	39	--	-3	--	78	130
Waxes	--	--	5	5	--	0	--	4	6
Petroleum Coke	--	--	909	10	--	3	--	574	342
Marketable	--	--	676	10	--	3	--	574	109
Catalyst	--	--	233	--	--	--	--	--	233
Asphalt and Road Oil	--	--	331	36	--	-5	--	20	352
Still Gas	--	--	694	--	--	--	--	--	694
Miscellaneous Products	--	--	91	0	--	0	--	1	90
Total	12,354	1,152	20,065	10,058	277	131	18,957	5,188	19,631

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁴ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁵ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, the U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates.

Table 5. PAD District 1 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	1,301	--	--	26,327	3,450	-44	-1,918	32,952	--	0	12,245
Natural Gas Plant Liquids and Liquefied Refinery Gases	11,750	-17	19	1,785	491	--	-1,647	1,494	2,452	11,729	7,767
Pentanes Plus	1,108	-17	--	--	-21	--	-207	244	106	927	183
Liquefied Petroleum Gases	10,642	--	19	1,785	512	--	-1,440	1,250	2,346	10,802	7,584
Ethane/Ethylene	4,996	--	19	--	-3,821	--	150	--	994	50	440
Propane/Propylene	3,889	--	1,087	1,634	3,507	--	-1,270	--	1,332	10,055	6,014
Normal Butane/Butylene	1,169	--	-906	61	794	--	-289	1,019	19	369	972
Isobutane/Isobutylene	588	--	-181	90	32	--	-31	231	1	328	158
Other Liquids	--	1,022	--	17,518	55,355	10,220	1,588	82,791	1,967	-2,231	73,110
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	1,025	--	1,427	8,785	525	880	10,784	98	0	9,111
Hydrogen	--	--	--	--	--	108	--	108	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	1,025	--	1,427	8,785	416	880	10,676	97	0	9,111
Fuel Ethanol	--	832	--	--	8,585	1,045	103	10,266	93	0	6,286
Renewable Fuels Except Fuel Ethanol	--	193	--	1,427	200	-629	777	410	4	0	2,825
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,096	-62	--	-393	2,063	1,595	-2,231	4,472
Motor Gasoline Blend. Comp. (MGBC)	--	-3	--	14,995	46,632	9,695	1,101	69,944	274	0	59,527
Reformulated	--	--	--	6,681	8,360	3,205	697	17,549	0	0	19,623
Conventional	--	-3	--	8,314	38,272	6,490	404	52,395	274	0	39,904
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	118,869	10,783	44,753	-10,037	-260	--	3,106	161,522	102,759
Finished Motor Gasoline	--	--	99,399	868	4,368	-10,740	1,006	--	104	92,785	5,492
Reformulated	--	--	40,436	--	--	-2,518	7	--	--	37,911	31
Conventional	--	--	58,963	868	4,368	-8,222	999	--	104	54,874	5,461
Finished Aviation Gasoline	--	--	--	1	407	--	39	--	--	369	164
Kerosene-Type Jet Fuel	--	--	2,567	1,501	14,032	--	-1,683	--	16	19,767	11,078
Kerosene	--	--	171	224	--	--	-62	--	2	455	1,771
Distillate Fuel Oil ⁶	--	--	11,030	4,816	25,124	704	-565	--	823	41,416	66,951
15 ppm sulfur and under	--	--	8,680	3,671	22,752	704	75	--	560	35,172	53,457
Greater than 15 ppm to 500 ppm sulfur	--	--	320	44	94	--	-512	--	263	707	6,388
Greater than 500 ppm sulfur	--	--	2,030	1,101	2,278	--	-128	--	0	5,537	7,106
Residual Fuel Oil ⁷	--	--	1,555	2,266	--	--	424	--	933	2,464	10,996
Less than 0.31 percent sulfur	--	--	359	--	--	--	96	--	NA	NA	1,000
0.31 to 1.00 percent sulfur	--	--	180	1	--	--	-86	--	NA	NA	2,643
Greater than 1.00 percent sulfur	--	--	1,016	2,265	--	--	414	--	NA	NA	7,353
Petrochemical Feedstocks	--	--	103	--	36	--	-58	--	--	197	159
Naphtha for Petro. Feed. Use	--	--	103	--	36	--	-58	--	--	197	159
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	17	--	--	--	-1	--	--	18	22
Lubricants	--	--	402	180	559	--	-80	--	209	1,012	1,208
Waxes	--	--	-7	115	--	--	44	--	63	1	377
Petroleum Coke	--	--	1,236	158	--	--	--	--	898	496	--
Marketable	--	--	505	158	--	--	--	--	898	-235	--
Catalyst	--	--	731	--	--	--	--	--	--	731	--
Asphalt and Road Oil	--	--	988	654	227	--	676	--	45	1,148	4,504
Still Gas	--	--	1,308	--	--	--	--	--	--	1,308	--
Miscellaneous Products	--	--	100	--	--	--	0	--	13	87	37
Total	13,051	1,005	118,888	56,413	104,049	140	-2,237	117,237	7,525	171,021	195,881

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 6. PAD District 1 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	16,408	--	--	316,754	75,093	43,646	-3,929	405,496	50,334	0	12,245
Natural Gas Plant Liquids and Liquefied Refinery Gases	129,068	-176	10,907	16,111	-17,614	--	-503	13,153	24,703	100,943	7,767
Pentanes Plus	13,137	-176	--	--	-52	--	-26	1,539	1,167	10,229	183
Liquefied Petroleum Gases	115,931	--	10,907	16,111	-17,562	--	-477	11,614	23,536	90,714	7,584
Ethane/Ethylene	51,732	--	156	43	-46,327	--	322	--	7,479	-2,197	440
Propane/Propylene	44,115	--	12,909	14,489	26,919	--	-709	--	14,482	84,659	6,014
Normal Butane/Butylene	13,521	--	-1,644	546	2,006	--	-56	7,362	1,563	5,560	972
Isobutane/Isobutylene	6,563	--	-514	1,033	-160	--	-34	4,252	11	2,693	158
Other Liquids	--	11,396	--	232,614	637,829	111,937	4,527	988,879	22,465	-22,095	73,110
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	11,432	--	8,968	109,970	-1,324	446	127,133	1,467	0	9,111
Hydrogen	--	--	--	--	--	1,246	--	1,246	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	19	--	--	19	0	--
Renewable Fuels (including Fuel Ethanol)	--	11,432	--	8,962	109,970	-2,583	446	125,887	1,448	0	9,111
Fuel Ethanol	--	9,352	--	12	108,341	4,672	-932	121,916	1,393	0	6,286
Renewable Fuels Except Fuel Ethanol	--	2,080	--	8,950	1,629	-7,255	1,378	3,971	55	0	2,825
Other Hydrocarbons	--	--	--	6	--	-6	--	--	--	0	--
Unfinished Oils	--	--	--	14,278	-381	--	-1,005	18,188	18,809	-22,095	4,472
Motor Gasoline Blend. Comp. (MGBC)	--	-36	--	209,368	528,240	113,261	5,086	843,558	2,189	0	59,527
Reformulated	--	--	--	68,476	95,830	44,645	-134	209,080	5	0	19,623
Conventional	--	-36	--	140,892	432,410	68,616	5,220	634,478	2,184	0	39,904
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,413,497	127,911	534,540	-111,147	2,939	--	49,571	1,912,291	102,759
Finished Motor Gasoline	--	--	1,180,736	19,749	81,125	-117,933	-346	--	947	1,163,075	5,492
Reformulated	--	--	475,817	--	44	-34,718	15	--	--	441,128	31
Conventional	--	--	704,919	19,749	81,081	-83,215	-361	--	947	721,947	5,461
Finished Aviation Gasoline	--	--	--	11	6,147	--	23	--	--	6,135	164
Kerosene-Type Jet Fuel	--	--	31,988	20,585	161,488	--	1,005	--	582	212,474	11,078
Kerosene	--	--	853	854	--	--	-211	--	329	1,589	1,771
Distillate Fuel Oil ⁶	--	--	127,018	44,133	275,886	6,786	2,499	--	23,788	427,536	66,951
15 ppm sulfur and under	--	--	111,226	30,611	250,515	6,786	4,110	--	19,222	375,806	53,457
Greater than 15 ppm to 500 ppm sulfur	--	--	2,914	1,271	3,222	--	1,184	--	3,799	2,424	6,388
Greater than 500 ppm sulfur	--	--	12,878	12,251	22,149	--	-2,795	--	767	49,306	7,106
Residual Fuel Oil ⁷	--	--	17,363	28,501	5	--	-454	--	12,344	33,979	10,996
Less than 0.31 percent sulfur	--	--	2,900	1,834	-194	--	-602	--	NA	NA	1,000
0.31 to 1.00 percent sulfur	--	--	1,974	3,379	--	--	16	--	NA	NA	2,643
Greater than 1.00 percent sulfur	--	--	12,489	23,288	199	--	132	--	NA	NA	7,353
Petrochemical Feedstocks	--	--	1,640	36	-115	--	8	--	--	1,553	159
Naphtha for Petro. Feed. Use	--	--	1,640	23	36	--	8	--	--	1,691	159
Other Oils for Petro. Feed. Use	--	--	--	13	-151	--	--	--	--	-138	--
Special Naphthas	--	--	256	--	--	--	-8	--	--	264	22
Lubricants	--	--	4,810	2,288	6,253	--	-2	--	2,467	10,886	1,208
Waxes	--	--	56	942	--	--	76	--	661	261	377
Petroleum Coke	--	--	13,092	1,862	--	--	--	--	7,362	7,592	--
Marketable	--	--	4,815	1,862	--	--	--	--	7,362	-685	--
Catalyst	--	--	8,277	--	--	--	--	--	--	8,277	--
Asphalt and Road Oil	--	--	19,287	8,950	3,751	--	349	--	925	30,714	4,504
Still Gas	--	--	15,384	--	--	--	--	--	--	15,384	--
Miscellaneous Products	--	--	1,014	--	--	--	0	--	165	849	37
Total	145,476	11,220	1,424,404	693,390	1,229,848	44,436	3,034	1,407,528	147,073	1,991,139	195,881

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 7. PAD District 1 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	42	--	--	849	111	-1	-62	1,063	-	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	379	-1	1	58	16	--	-53	48	79	378
Pentanes Plus	36	-1	--	--	-1	--	-7	8	3	30
Liquefied Petroleum Gases	343	--	1	58	17	--	-46	40	76	348
Ethane/Ethylene	161	--	1	--	-123	--	5	--	32	2
Propane/Propylene	125	--	35	53	113	--	-41	--	43	324
Normal Butane/Butylene	38	--	-29	2	26	--	-9	33	1	12
Isobutane/Isobutylene	19	--	-6	3	1	--	-1	7	0	11
Other Liquids	--	33	--	565	1,786	330	51	2,671	63	-72
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	33	--	46	283	17	28	348	3	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	33	--	46	283	13	28	344	3	0
Fuel Ethanol	--	27	--	--	277	34	3	331	3	0
Renewable Fuels Except Fuel Ethanol	--	6	--	46	6	-20	25	13	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	35	-2	--	-13	67	51	-72
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	484	1,504	313	36	2,256	9	0
Reformulated	--	--	--	216	270	103	22	566	0	0
Conventional	--	0	--	268	1,235	209	13	1,690	9	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,834	348	1,444	-324	-8	--	100	5,210
Finished Motor Gasoline	--	--	3,206	28	141	-346	32	--	3	2,993
Reformulated	--	--	1,304	--	--	-81	0	--	--	1,223
Conventional	--	--	1,902	28	141	-265	32	--	3	1,770
Finished Aviation Gasoline	--	--	--	0	13	--	1	--	--	12
Kerosene-Type Jet Fuel	--	--	83	48	453	--	-54	--	1	638
Kerosene	--	--	6	7	--	--	-2	--	0	15
Distillate Fuel Oil ⁶	--	--	356	155	810	23	-18	--	27	1,336
15 ppm sulfur and under	--	--	280	118	734	23	2	--	18	1,135
Greater than 15 ppm to 500 ppm sulfur	--	--	10	1	3	--	-17	--	8	23
Greater than 500 ppm sulfur	--	--	65	36	73	--	-4	--	0	179
Residual Fuel Oil ⁷	--	--	50	73	--	--	14	--	30	79
Less than 0.31 percent sulfur	--	--	12	--	--	--	3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	6	0	--	--	-3	--	NA	NA
Greater than 1.00 percent sulfur	--	--	33	73	--	--	13	--	NA	NA
Petrochemical Feedstocks	--	--	3	--	1	--	-2	--	--	6
Naphtha for Petro. Feed. Use	--	--	3	--	1	--	-2	--	--	6
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	6	18	--	-3	--	7	33
Waxes	--	--	0	4	--	--	1	--	2	0
Petroleum Coke	--	--	40	5	--	--	--	--	29	16
Marketable	--	--	16	5	--	--	--	--	29	-8
Catalyst	--	--	24	--	--	--	--	--	--	24
Asphalt and Road Oil	--	--	32	21	7	--	22	--	1	37
Still Gas	--	--	42	--	--	--	--	--	--	42
Miscellaneous Products	--	--	3	--	--	--	0	--	0	3
Total	421	32	3,835	1,820	3,356	5	-72	3,782	243	5,517

-- = Not Applicable.

- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 8. PAD District 1 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	45	--	--	865	205	119	-11	1,108	138	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	353	0	30	44	-48	--	-1	36	67	276
Pentanes Plus	36	0	--	--	0	--	0	4	3	28
Liquefied Petroleum Gases	317	--	30	44	-48	--	-1	32	64	248
Ethane/Ethylene	141	--	0	0	-127	--	1	--	20	-6
Propane/Propylene	121	--	35	40	74	--	-2	--	40	231
Normal Butane/Butylene	37	--	-4	1	5	--	0	20	4	15
Isobutane/Isobutylene	18	--	-1	3	0	--	0	12	0	7
Other Liquids	--	31	--	636	1,743	306	12	2,702	61	-60
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	31	--	25	300	-4	1	347	4	0
Hydrogen	--	--	--	--	--	3	--	3	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	31	--	24	300	-7	1	344	4	0
Fuel Ethanol	--	26	--	0	296	13	-3	333	4	0
Renewable Fuels Except Fuel Ethanol	--	6	--	24	4	-20	4	11	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	39	-1	--	-3	50	51	-60
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	572	1,443	309	14	2,305	6	0
Reformulated	--	--	--	187	262	122	0	571	0	0
Conventional	--	0	--	385	1,181	187	14	1,734	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,862	349	1,460	-304	8	--	135	5,225
Finished Motor Gasoline	--	--	3,226	54	222	-322	-1	--	3	3,178
Reformulated	--	--	1,300	--	0	-95	0	--	--	1,205
Conventional	--	--	1,926	54	222	-227	-1	--	3	1,973
Finished Aviation Gasoline	--	--	--	0	17	--	0	--	--	17
Kerosene-Type Jet Fuel	--	--	87	56	441	--	3	--	2	581
Kerosene	--	--	2	2	--	--	-1	--	1	4
Distillate Fuel Oil ⁶	--	--	347	121	754	19	7	--	65	1,168
15 ppm sulfur and under	--	--	304	84	684	19	11	--	53	1,027
Greater than 15 ppm to 500 ppm sulfur	--	--	8	3	9	--	3	--	10	7
Greater than 500 ppm sulfur	--	--	35	33	61	--	-8	--	2	135
Residual Fuel Oil ⁷	--	--	47	78	0	--	-1	--	34	93
Less than 0.31 percent sulfur	--	--	8	5	-1	--	-2	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	5	9	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	34	64	1	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	4	0	0	--	0	--	--	4
Naphtha for Petro. Feed. Use	--	--	4	0	0	--	0	--	--	5
Other Oils for Petro. Feed. Use	--	--	--	0	0	--	--	--	--	0
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	6	17	--	0	--	7	30
Waxes	--	--	0	3	--	--	0	--	2	1
Petroleum Coke	--	--	36	5	--	--	--	--	20	21
Marketable	--	--	13	5	--	--	--	--	20	-2
Catalyst	--	--	23	--	--	--	--	--	--	23
Asphalt and Road Oil	--	--	53	24	10	--	1	--	3	84
Still Gas	--	--	42	--	--	--	--	--	--	42
Miscellaneous Products	--	--	3	--	--	--	0	--	0	2
Total	397	31	3,892	1,895	3,360	121	8	3,846	402	5,440

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 9. PAD District 2 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	48,293	--	--	80,780	-2,337	-4,336	1,897	115,145	5,358	0	151,279
Natural Gas Plant Liquids and Liquefied Refinery Gases	21,807	-638	284	3,063	-4,676	--	-9,743	4,334	6,525	18,724	47,927
Pentanes Plus	2,521	-638	--	4	4,885	--	-62	397	4,191	2,246	9,292
Liquefied Petroleum Gases	19,286	--	284	3,059	-9,561	--	-9,681	3,937	2,335	16,477	38,635
Ethane/Ethylene	6,443	--	--	--	-2,092	--	-20	--	2,148	2,223	5,681
Propane/Propylene	8,594	--	3,569	2,447	-6,125	--	-4,612	--	70	13,027	22,134
Normal Butane/Butylene	2,691	--	-3,050	458	-1,360	--	-4,896	2,297	117	1,221	8,918
Isobutane/Isobutylene	1,558	--	-235	154	16	--	-153	1,640	--	6	1,902
Other Liquids	--	31,988	--	338	-10,775	-4,354	2,907	13,837	1,081	-629	66,537
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	31,989	--	12	-18,963	-2,982	147	9,359	549	0	7,800
Hydrogen	--	--	--	--	--	1,260	--	1,260	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	1	--	--	1	0	--
Renewable Fuels (including Fuel Ethanol)	--	31,989	--	12	-18,963	-4,283	153	8,053	548	0	7,783
Fuel Ethanol	--	29,846	--	--	-18,261	-2,992	387	7,665	541	0	7,094
Renewable Fuels Except Fuel Ethanol	--	2,143	--	12	-702	-1,291	-234	388	7	0	689
Other Hydrocarbons	--	--	--	--	--	40	-6	46	--	0	17
Unfinished Oils	--	--	--	--	-245	--	158	118	108	-629	13,137
Motor Gasoline Blend. Comp. (MGBC)	--	-1	--	326	8,433	-1,372	2,602	4,360	424	0	45,600
Reformulated	--	--	--	--	1,610	-207	387	1,016	0	0	6,547
Conventional	--	-1	--	326	6,823	-1,165	2,215	3,344	424	0	39,053
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	95	140,554	854	2,233	5,675	2,829	--	2,175	144,407	61,433
Finished Motor Gasoline	--	95	80,240	--	179	4,364	246	--	590	84,041	7,247
Reformulated	--	--	11,531	--	--	299	--	--	--	11,830	--
Conventional	--	95	68,709	--	179	4,064	246	--	590	72,211	7,247
Finished Aviation Gasoline	--	--	74	--	9	--	71	--	--	12	211
Kerosene-Type Jet Fuel	--	--	7,411	--	1,223	--	-349	--	110	8,873	6,829
Kerosene	--	--	252	--	--	--	70	--	1	181	196
Distillate Fuel Oil	--	--	35,137	68	1,706	1,311	1,330	--	193	36,699	32,562
15 ppm sulfur and under	--	--	34,987	68	1,606	1,311	1,216	--	1	36,755	31,288
Greater than 15 ppm to 500 ppm sulfur	--	--	186	--	100	--	56	--	56	174	450
Greater than 500 ppm sulfur	--	--	-36	--	--	--	58	--	135	-229	824
Residual Fuel Oil ⁶	--	--	1,586	156	-1,219	--	161	--	520	-158	1,489
Less than 0.31 percent sulfur	--	--	83	--	--	--	7	--	NA	NA	32
0.31 to 1.00 percent sulfur	--	--	241	85	-126	--	36	--	NA	NA	287
Greater than 1.00 percent sulfur	--	--	1,262	71	-1,093	--	118	--	NA	NA	1,170
Petrochemical Feedstocks	--	--	858	136	-124	--	-92	--	--	962	533
Naphtha for Petro. Feed. Use	--	--	600	102	-124	--	-96	--	--	674	391
Other Oils for Petro. Feed. Use	--	--	258	34	--	--	4	--	--	288	142
Special Naphthas	--	--	54	46	53	--	5	--	--	148	161
Lubricants	--	--	220	202	206	--	0	--	184	444	740
Waxes	--	--	33	12	--	--	-11	--	27	29	44
Petroleum Coke	--	--	6,151	7	--	--	181	--	469	5,508	1,078
Marketable	--	--	4,655	7	--	--	181	--	469	4,012	1,078
Catalyst	--	--	1,496	--	--	--	--	--	--	1,496	--
Asphalt and Road Oil	--	--	3,558	227	200	--	1,204	--	81	2,700	10,220
Still Gas	--	--	4,460	--	--	--	--	--	--	4,460	--
Miscellaneous Products	--	--	520	--	0	--	13	--	0	507	123
Total	70,100	31,445	140,838	85,035	-15,556	-3,015	-2,110	133,316	15,139	162,502	327,176

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³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

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⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

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Table 10. PAD District 2 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil	614,570	--	--	870,205	-76,504	-44,688	6,781	1,325,141	31,661	0	151,279
Natural Gas Plant Liquids and Liquefied Refinery Gases	282,595	-7,211	41,926	29,668	-93,785	--	-6,760	39,904	99,719	120,330	47,927
Pentanes Plus	34,032	-7,211	--	330	52,448	--	-705	8,520	68,118	3,666	9,292
Liquefied Petroleum Gases	248,563	--	41,926	29,338	-146,233	--	-6,055	31,384	31,601	116,664	38,635
Ethane/Ethylene	84,474	--	--	--	-35,996	--	501	--	25,406	22,571	5,681
Propane/Propylene	108,928	--	42,110	23,692	-93,271	--	-3,797	--	2,287	82,969	22,134
Normal Butane/Butylene	35,243	--	1,150	3,314	-18,034	--	-2,712	12,097	3,905	8,383	8,918
Isobutane/Isobutylene	19,918	--	-1,334	2,332	1,068	--	-47	19,287	2	2,742	1,902
Other Liquids	--	359,217	--	3,071	-111,263	-10,487	-673	234,241	10,702	-3,731	66,537
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	359,229	--	715	-223,253	-20,113	-212	110,145	6,645	0	7,800
Hydrogen	--	--	--	--	--	13,019	--	13,019	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	6	--	--	--	-2	--	--	4	0	--
Renewable Fuels (including Fuel Ethanol)	--	359,223	--	611	-223,253	-33,459	-187	96,668	6,640	0	7,783
Fuel Ethanol	--	334,219	--	--	-217,293	-20,312	37	91,151	5,426	0	7,094
Renewable Fuels Except Fuel Ethanol	--	25,004	--	611	-5,961	-13,147	-224	5,517	1,214	0	689
Other Hydrocarbons	--	--	--	104	--	329	-25	458	--	0	17
Unfinished Oils	--	--	--	--	-5,965	--	264	-4,253	1,755	-3,731	13,137
Motor Gasoline Blend. Comp. (MGBC)	--	-12	--	2,356	117,955	9,627	-725	128,349	2,302	0	45,600
Reformulated	--	--	--	--	29,453	-12,941	418	16,093	1	0	6,547
Conventional	--	-12	--	2,356	88,502	22,568	-1,143	112,256	2,301	0	39,053
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	1,040	1,638,797	9,895	69,804	23,853	-705	--	22,371	1,721,723	61,433
Finished Motor Gasoline	--	1,040	958,742	65	10,327	10,685	-78	--	4,289	976,649	7,247
Reformulated	--	--	135,507	--	--	14,101	--	--	--	149,608	--
Conventional	--	1,040	823,235	65	10,327	-3,415	-78	--	4,289	827,041	7,247
Finished Aviation Gasoline	--	--	685	2	300	--	34	--	--	953	211
Kerosene-Type Jet Fuel	--	--	87,546	5	11,178	--	42	--	4,628	94,059	6,829
Kerosene	--	--	1,114	1	182	--	-19	--	256	1,060	196
Distillate Fuel Oil	--	--	378,557	789	54,612	13,167	668	--	2,812	443,646	32,562
15 ppm sulfur and under	--	--	378,376	504	53,423	13,167	268	--	688	444,514	31,288
Greater than 15 ppm to 500 ppm sulfur	--	--	926	--	1,097	--	-53	--	1,411	665	450
Greater than 500 ppm sulfur	--	--	-745	285	92	--	453	--	712	-1,533	824
Residual Fuel Oil ⁶	--	--	18,842	1,264	-9,709	--	196	--	3,254	6,947	1,489
Less than 0.31 percent sulfur	--	--	1,188	--	--	--	29	--	NA	NA	32
0.31 to 1.00 percent sulfur	--	--	2,551	758	-166	--	130	--	NA	NA	287
Greater than 1.00 percent sulfur	--	--	15,103	506	-9,492	--	37	--	NA	NA	1,170
Petrochemical Feedstocks	--	--	10,585	1,751	-1,116	--	-222	--	--	11,442	533
Naphtha for Petro. Feed. Use	--	--	8,093	1,011	-1,131	--	-201	--	--	8,174	391
Other Oils for Petro. Feed. Use	--	--	2,492	740	15	--	-21	--	--	3,268	142
Special Naphthas	--	--	548	566	453	--	8	--	--	1,559	161
Lubricants	--	--	3,252	2,523	2,607	--	71	--	2,103	6,208	740
Waxes	--	--	424	70	--	--	2	--	354	138	44
Petroleum Coke	--	--	69,173	188	--	--	-118	--	3,220	66,259	1,078
Marketable	--	--	51,499	188	--	--	-118	--	3,220	48,585	1,078
Catalyst	--	--	17,674	--	--	--	--	--	--	17,674	--
Asphalt and Road Oil	--	--	51,667	2,671	827	--	-1,295	--	1,453	55,007	10,220
Still Gas	--	--	51,980	--	--	--	--	--	--	51,980	--
Miscellaneous Products	--	--	5,682	--	143	--	6	--	3	5,816	123
Total	897,165	353,046	1,680,723	912,839	-211,748	-31,321	-1,357	1,599,286	164,453	1,838,322	327,176

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 11. PAD District 2 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,558	--	--	2,606	-75	-140	61	3,714	173	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	703	-21	9	99	-151	--	-314	140	210	604
Pentanes Plus	81	-21	--	0	158	--	-2	13	135	72
Liquefied Petroleum Gases	622	--	9	99	-308	--	-312	127	75	532
Ethane/Ethylene	208	--	--	--	-67	--	-1	--	69	72
Propane/Propylene	277	--	115	79	-198	--	-149	--	2	420
Normal Butane/Butylene	87	--	-98	15	-44	--	-158	74	4	39
Isobutane/Isobutylene	50	--	-8	5	1	--	-5	53	--	0
Other Liquids	--	1,032	--	11	-348	-140	94	446	35	-20
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	1,032	--	0	-612	-96	5	302	18	0
Hydrogen	--	--	--	--	--	41	--	41	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	1,032	--	0	-612	-138	5	260	18	0
Fuel Ethanol	--	963	--	--	-589	-97	12	247	17	0
Renewable Fuels Except Fuel Ethanol	--	69	--	0	-23	-42	-8	13	0	0
Other Hydrocarbons	--	--	--	--	--	1	0	1	--	0
Unfinished Oils	--	--	--	--	-8	--	5	4	3	-20
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	11	272	-44	84	141	14	0
Reformulated	--	--	--	--	52	-7	12	33	0	0
Conventional	--	0	--	11	220	-38	71	108	14	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,534	28	72	183	91	--	70	4,658
Finished Motor Gasoline	--	3	2,588	--	6	141	8	--	19	2,711
Reformulated	--	--	372	--	--	10	--	--	--	382
Conventional	--	3	2,216	--	6	131	8	--	19	2,329
Finished Aviation Gasoline	--	--	2	--	0	--	2	--	--	0
Kerosene-Type Jet Fuel	--	--	239	--	39	--	-11	--	4	286
Kerosene	--	--	8	--	--	--	2	--	0	6
Distillate Fuel Oil	--	--	1,133	2	55	42	43	--	6	1,184
15 ppm sulfur and under	--	--	1,129	2	52	42	39	--	0	1,186
Greater than 15 ppm to 500 ppm sulfur	--	--	6	--	3	--	2	--	2	6
Greater than 500 ppm sulfur	--	--	-1	--	--	--	2	--	4	-7
Residual Fuel Oil ⁶	--	--	51	5	-39	--	5	--	17	-5
Less than 0.31 percent sulfur	--	--	3	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	8	3	-4	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	41	2	-35	--	4	--	NA	NA
Petrochemical Feedstocks	--	--	28	4	--	--	-3	--	--	31
Naphtha for Petro. Feed. Use	--	--	19	3	-4	--	-3	--	--	22
Other Oils for Petro. Feed. Use	--	--	8	1	--	--	0	--	--	9
Special Naphthas	--	--	2	1	2	--	0	--	--	5
Lubricants	--	--	7	7	7	--	0	--	6	14
Waxes	--	--	1	0	--	--	0	--	1	1
Petroleum Coke	--	--	198	0	--	--	6	--	15	178
Marketable	--	--	150	0	--	--	6	--	15	129
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	115	7	6	--	39	--	3	87
Still Gas	--	--	144	--	--	--	--	--	--	144
Miscellaneous Products	--	--	17	--	0	--	0	--	0	16
Total	2,261	1,014	4,543	2,743	-502	-97	-68	4,301	488	5,242

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 12. PAD District 2 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,679	--	--	2,378	-209	-122	19	3,621	87	0
Natural Gas Plant Liquids and Liquefied Refinery Gases	772	-20	115	81	-256	--	-18	109	272	329
Pentanes Plus	93	-20	--	1	143	--	-2	23	186	10
Liquefied Petroleum Gases	679	--	115	80	-400	--	-17	86	86	319
Ethane/Ethylene	231	--	--	--	-98	--	1	--	69	62
Propane/Propylene	298	--	115	65	-255	--	-10	--	6	227
Normal Butane/Butylene	96	--	3	9	-49	--	-7	33	11	23
Isobutane/Isobutylene	54	--	-4	6	3	--	0	53	0	7
Other Liquids	--	981	--	8	-304	-29	-2	640	29	-10
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	982	--	2	-610	-55	-1	301	18	0
Hydrogen	--	--	--	--	--	36	--	36	--	0
Oxygenates (excluding Fuel Ethanol)	--	0	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	981	--	2	-610	-91	-1	264	18	0
Fuel Ethanol	--	913	--	--	-594	-55	0	249	15	0
Renewable Fuels Except Fuel Ethanol	--	68	--	2	-16	-36	-1	15	3	0
Other Hydrocarbons	--	--	--	0	--	1	0	1	--	0
Unfinished Oils	--	--	--	--	-16	--	1	-12	5	-10
Motor Gasoline Blend.Comp. (MGBC)	--	0	--	6	322	26	-2	351	6	0
Reformulated	--	--	--	--	80	-35	1	44	0	0
Conventional	--	0	--	6	242	62	-3	307	6	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	3	4,478	27	191	65	-2	--	61	4,704
Finished Motor Gasoline	--	3	2,620	0	28	29	0	--	12	2,668
Reformulated	--	--	370	--	--	39	--	--	--	409
Conventional	--	3	2,249	0	28	-9	0	--	12	2,260
Finished Aviation Gasoline	--	--	2	0	1	--	0	--	--	3
Kerosene-Type Jet Fuel	--	--	239	0	31	--	0	--	13	257
Kerosene	--	--	3	0	0	--	0	--	1	3
Distillate Fuel Oil	--	--	1,034	2	149	36	2	--	8	1,212
15 ppm sulfur and under	--	--	1,034	1	146	36	1	--	2	1,215
Greater than 15 ppm to 500 ppm sulfur	--	--	3	--	3	--	0	--	4	2
Greater than 500 ppm sulfur	--	--	-2	1	0	--	1	--	2	-4
Residual Fuel Oil ⁶	--	--	51	3	-27	--	1	--	9	19
Less than 0.31 percent sulfur	--	--	3	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	7	2	0	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	41	1	-26	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	29	5	-3	--	-1	--	--	31
Naphtha for Petro. Feed. Use	--	--	22	3	-3	--	-1	--	--	22
Other Oils for Petro. Feed. Use	--	--	7	2	0	--	0	--	--	9
Special Naphthas	--	--	1	2	1	--	0	--	--	4
Lubricants	--	--	9	7	7	--	0	--	6	17
Waxes	--	--	1	0	--	--	0	--	1	0
Petroleum Coke	--	--	189	1	--	--	0	--	9	181
Marketable	--	--	141	1	--	--	0	--	9	133
Catalyst	--	--	48	--	--	--	--	--	--	48
Asphalt and Road Oil	--	--	141	7	2	--	-4	--	4	150
Still Gas	--	--	142	--	--	--	--	--	--	142
Miscellaneous Products	--	--	16	--	0	--	0	--	0	16
Total	2,451	965	4,592	2,494	-579	-86	-4	4,370	449	5,023

-- = Not Applicable.

-- = No Data Reported.

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¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 13. PAD District 3 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil⁶	171,552	--	--	94,265	6,434	8,004	-3,235	275,180	8,309	0	940,865
Natural Gas Plant Liquids and Liquefied Refinery Gases	56,998	-17	9,783	36	12,686	--	-17,366	10,730	34,425	51,697	140,029
Pentanes Plus	5,962	-17	--	--	-3,472	--	-479	2,607	33	312	15,218
Liquefied Petroleum Gases	51,036	--	9,783	36	16,158	--	-16,887	8,123	34,393	51,384	124,811
Ethane/Ethylene	23,789	--	81	--	8,363	--	-1,318	--	1,134	32,417	47,448
Propane/Propylene	17,663	--	12,090	--	6,028	--	-10,217	--	30,272	15,726	53,020
Normal Butane/Butylene	3,152	--	-2,176	36	1,194	--	-5,946	4,418	2,819	915	19,008
Isobutane/Isobutylene	6,432	--	-212	--	573	--	594	3,705	168	2,326	5,335
Other Liquids	--	3,587	--	13,122	-54,210	-8,009	-1,348	-54,231	8,336	1,734	119,852
Hydrogen/Oxygenates/Renewables/											
Other Hydrocarbons	--	3,587	--	1,275	4,960	3,918	1,154	9,231	3,356	0	7,073
Hydrogen	--	--	--	--	--	4,289	--	4,289	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	2,062	--	291	--	-272	253	95	1,733	0	1,477
Renewable Fuels (including Fuel Ethanol)	--	1,525	--	979	4,960	-94	901	4,847	1,623	0	5,596
Fuel Ethanol	--	775	--	--	4,724	681	178	4,414	1,588	0	3,325
Renewable Fuels Except Fuel Ethanol	--	750	--	979	236	-774	723	433	35	0	2,271
Other Hydrocarbons	--	--	--	5	--	-5	--	--	--	0	--
Unfinished Oils	--	--	--	10,880	307	--	-1,060	7,668	2,845	1,734	41,572
Motor Gasoline Blend. Comp. (MGBC)	--	--	--	967	-59,477	-11,928	-1,434	-71,138	2,134	0	71,198
Reformulated	--	--	--	--	-12,251	5,501	480	-7,231	1	0	11,655
Conventional	--	--	--	967	-47,226	-17,428	-1,914	-63,907	2,134	0	59,543
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	-8	8	--	0	9
Finished Petroleum Products	--	--	241,537	3,421	-48,188	12,403	7,649	--	81,715	119,809	123,792
Finished Motor Gasoline	--	--	72,052	--	-4,348	11,247	1,576	--	25,219	52,156	11,474
Reformulated	--	--	13,756	--	--	-5,723	--	--	--	8,033	--
Conventional	--	--	58,296	--	-4,348	16,970	1,576	--	25,219	44,122	11,474
Finished Aviation Gasoline	--	--	246	28	-416	--	52	--	--	-194	417
Kerosene-Type Jet Fuel	--	--	26,535	--	-15,869	--	2	--	4,917	5,747	15,066
Kerosene	--	--	-7	--	--	--	-19	--	7	5	246
Distillate Fuel Oil	--	--	90,852	168	-27,645	1,156	4,648	--	32,659	27,225	48,792
15 ppm sulfur and under	--	--	82,274	--	-25,173	1,156	5,089	--	27,386	25,782	42,383
Greater than 15 ppm to 500 ppm sulfur	--	--	3,621	--	-194	--	-111	--	4,502	-964	1,497
Greater than 500 ppm sulfur	--	--	4,957	168	-2,278	--	-330	--	771	2,406	4,912
Residual Fuel Oil ⁷	--	--	6,334	1,413	1,219	--	-229	--	5,645	3,550	24,356
Less than 0.31 percent sulfur	--	--	1,076	199	--	--	105	--	NA	NA	2,271
0.31 to 1.00 percent sulfur	--	--	468	--	126	--	-218	--	NA	NA	5,289
Greater than 1.00 percent sulfur	--	--	4,790	1,214	1,093	--	-116	--	NA	NA	16,796
Petrochemical Feedstocks	--	--	8,690	712	88	--	58	--	--	9,432	2,547
Naphtha for Petro. Feed. Use	--	--	5,432	707	88	--	104	--	--	6,123	1,460
Other Oils for Petro. Feed. Use	--	--	3,258	5	--	--	-46	--	--	3,309	1,087
Special Naphthas	--	--	902	254	-53	--	-93	--	--	1,196	1,006
Lubricants	--	--	4,259	682	-762	--	194	--	1,846	2,139	9,829
Waxes	--	--	98	51	--	--	4	--	25	120	250
Petroleum Coke	--	--	16,172	113	--	--	1,226	--	11,111	3,948	4,548
Marketable	--	--	12,404	113	--	--	1,226	--	11,111	180	4,548
Catalyst	--	--	3,768	--	--	--	--	--	--	3,768	--
Asphalt and Road Oil	--	--	2,101	--	-427	--	373	--	281	1,020	4,837
Still Gas	--	--	11,447	--	--	--	--	--	--	11,447	--
Miscellaneous Products	--	--	1,856	--	25	--	-143	--	5	2,019	424
Total	228,550	3,570	251,320	110,844	-83,278	12,398	-14,300	231,679	132,785	173,240	1,324,538

-- = Not Applicable.

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NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 14. PAD District 3 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels)

Commodity	Supply						Disposition				
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	Ending Stocks
Crude Oil⁶	2,002,781	--	--	1,152,451	85,801	13,190	30,983	3,120,849	102,391	0	940,865
Natural Gas Plant Liquids and Liquefied Refinery Gases	705,085	-218	150,621	3,165	219,997	--	14,268	106,500	297,738	660,144	140,029
Pentanes Plus	78,798	-218	--	2,878	-35,740	--	5,235	32,132	716	7,635	15,218
Liquefied Petroleum Gases	626,287	--	150,621	287	255,737	--	9,033	74,368	297,023	652,508	124,811
Ethane/Ethylene	288,977	--	1,335	--	113,135	--	19,250	--	1,815	382,382	47,448
Propane/Propylene	217,498	--	137,999	--	106,910	--	-7,980	--	264,049	206,338	53,020
Normal Butane/Butylene	45,082	--	13,817	287	28,376	--	-1,888	31,241	29,001	29,208	19,008
Isobutane/Isobutylene	74,730	--	-2,530	--	7,316	--	-349	43,127	2,158	34,580	5,335
Other Liquids	--	43,265	--	197,516	-646,933	-9,799	322	-578,910	140,838	21,800	119,852
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	43,265	--	10,461	53,879	44,114	771	107,892	43,056	0	7,073
Hydrogen	--	--	--	--	--	47,969	--	47,969	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	26,611	--	3,981	--	-3,256	550	1,062	25,724	0	1,477
Renewable Fuels (including Fuel Ethanol)	--	16,654	--	6,390	53,879	-509	221	58,861	17,333	0	5,596
Fuel Ethanol	--	9,681	--	94	53,192	5,962	-1,021	53,066	16,884	0	3,325
Renewable Fuels Except Fuel Ethanol	--	6,973	--	6,296	687	-6,470	1,242	5,795	449	0	2,271
Other Hydrocarbons	--	--	--	90	--	-90	--	--	--	0	--
Unfinished Oils	--	--	--	170,589	6,346	--	1,840	94,201	59,036	21,858	41,572
Motor Gasoline Blend. Comp. (MGBC)	--	--	--	16,466	-707,158	-53,913	-2,290	-781,060	38,745	0	71,198
Reformulated	--	--	--	638	-154,960	38,728	-107	-115,526	39	0	11,655
Conventional	--	--	--	15,828	-552,198	-92,642	-2,183	-665,534	38,705	0	59,543
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	1	57	--	-58	9
Finished Petroleum Products	--	--	2,724,288	56,026	-625,398	56,983	2,448	--	895,431	1,314,019	123,792
Finished Motor Gasoline	--	--	814,078	808	-90,835	47,952	393	--	207,037	564,573	11,474
Reformulated	--	--	167,458	--	-44	-46,057	--	--	--	121,357	--
Conventional	--	--	646,620	808	-90,791	94,009	393	--	207,037	443,216	11,474
Finished Aviation Gasoline	--	--	2,728	28	-6,471	--	47	--	--	-3,762	417
Kerosene-Type Jet Fuel	--	--	311,895	--	-182,612	--	751	--	50,178	78,354	15,066
Kerosene	--	--	2,635	--	-182	--	-80	--	2,670	-137	246
Distillate Fuel Oil	--	--	993,685	3,757	-341,737	9,031	2,555	--	374,077	288,104	48,792
15 ppm sulfur and under	--	--	902,979	216	-315,177	9,031	2,634	--	325,000	269,416	42,383
Greater than 15 ppm to 500 ppm sulfur	--	--	36,004	313	-4,319	--	-644	--	33,101	-459	1,497
Greater than 500 ppm sulfur	--	--	54,702	3,228	-22,241	--	565	--	15,976	19,148	4,912
Residual Fuel Oil ⁷	--	--	73,934	26,846	9,105	--	-692	--	78,284	32,293	24,356
Less than 0.31 percent sulfur	--	--	11,283	2,134	245	--	-54	--	NA	NA	2,271
0.31 to 1.00 percent sulfur	--	--	5,549	4,426	166	--	2,806	--	NA	NA	5,289
Greater than 1.00 percent sulfur	--	--	57,102	20,286	8,694	--	-3,444	--	NA	NA	16,796
Petrochemical Feedstocks	--	--	94,394	9,329	1,231	--	195	--	--	104,759	2,547
Naphtha for Petro. Feed. Use	--	--	60,407	8,231	1,095	--	129	--	--	69,604	1,460
Other Oils for Petro. Feed. Use	--	--	33,987	1,098	136	--	66	--	--	35,155	1,087
Special Naphthas	--	--	11,484	4,497	-453	--	-85	--	--	15,613	1,006
Lubricants	--	--	47,700	9,177	-8,748	--	-736	--	21,496	27,369	9,829
Waxes	--	--	1,254	306	--	--	20	--	202	1,338	250
Petroleum Coke	--	--	187,063	1,176	--	--	986	--	156,822	30,431	4,548
Marketable	--	--	142,732	1,176	--	--	986	--	156,822	-13,900	4,548
Catalyst	--	--	44,331	--	--	--	--	--	--	44,331	--
Asphalt and Road Oil	--	--	28,414	102	-4,578	--	-791	--	4,399	20,330	4,837
Still Gas	--	--	134,332	--	--	--	--	--	--	134,332	--
Miscellaneous Products	--	--	20,692	--	-118	--	-115	--	265	20,424	424
Total	2,707,866	43,047	2,874,909	1,409,158	-966,533	60,373	48,021	2,648,439	1,436,398	1,995,963	1,324,538

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² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 15. PAD District 3 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	5,534	--	--	3,041	208	258	-104	8,877	268	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	1,839	-1	316	1	409	--	-560	346	1,110	1,668
Pentanes Plus	192	-1	--	--	-112	--	-15	84	1	10
Liquefied Petroleum Gases	1,646	--	316	1	521	--	-545	262	1,109	1,658
Ethane/Ethylene	767	--	3	--	270	--	-43	--	37	1,046
Propane/Propylene	570	--	390	--	194	--	-330	--	977	507
Normal Butane/Butylene	102	--	-70	1	39	--	-192	143	91	30
Isobutane/Isobutylene	207	--	-7	--	18	--	19	120	5	75
Other Liquids	--	116	--	423	-1,749	-258	-43	-1,749	269	56
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	116	--	41	160	126	37	298	108	0
Hydrogen	--	--	--	--	--	138	--	138	--	0
Oxygenates (excluding Fuel Ethanol)	--	67	--	9	--	-9	8	3	56	0
Renewable Fuels (including Fuel Ethanol)	--	49	--	32	160	-3	29	156	52	0
Fuel Ethanol	--	25	--	--	152	22	6	142	51	0
Renewable Fuels Except Fuel Ethanol	--	24	--	32	8	-25	23	14	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	351	10	--	-34	247	92	56
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	31	-1,919	-385	-46	-2,295	69	0
Reformulated	--	--	--	--	-395	177	15	-233	0	0
Conventional	--	--	--	31	-1,523	-562	-62	-2,062	69	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,792	110	-1,554	400	247	--	2,636	3,865
Finished Motor Gasoline	--	--	2,324	--	-140	363	51	--	814	1,682
Reformulated	--	--	444	--	--	-185	--	--	--	259
Conventional	--	--	1,881	--	-140	547	51	--	814	1,423
Finished Aviation Gasoline	--	--	8	1	-13	--	2	--	--	-6
Kerosene-Type Jet Fuel	--	--	856	--	-512	--	0	--	159	185
Kerosene	--	--	0	--	--	--	-1	--	0	0
Distillate Fuel Oil	--	--	2,931	5	-892	37	150	--	1,054	878
15 ppm sulfur and under	--	--	2,654	--	-812	37	164	--	883	832
Greater than 15 ppm to 500 ppm sulfur	--	--	117	--	-6	--	-4	--	145	-31
Greater than 500 ppm sulfur	--	--	160	5	-73	--	-11	--	25	78
Residual Fuel Oil ⁷	--	--	204	46	39	--	-7	--	182	115
Less than 0.31 percent sulfur	--	--	35	6	--	--	3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	--	4	--	-7	--	NA	NA
Greater than 1.00 percent sulfur	--	--	155	39	35	--	-4	--	NA	NA
Petrochemical Feedstocks	--	--	280	23	3	--	2	--	--	304
Naphtha for Petro. Feed. Use	--	--	175	23	3	--	3	--	--	198
Other Oils for Petro. Feed. Use	--	--	105	0	--	--	-1	--	--	107
Special Naphthas	--	--	29	8	-2	--	-3	--	--	39
Lubricants	--	--	137	22	-25	--	6	--	60	69
Waxes	--	--	3	2	--	--	0	--	1	4
Petroleum Coke	--	--	522	4	--	--	40	--	358	127
Marketable	--	--	400	4	--	--	40	--	358	6
Catalyst	--	--	122	--	--	--	--	--	--	122
Asphalt and Road Oil	--	--	68	--	-14	--	12	--	9	33
Still Gas	--	--	369	--	--	--	--	--	--	369
Miscellaneous Products	--	--	60	--	1	--	-5	--	0	65
Total	7,373	115	8,107	3,576	-2,686	400	-461	7,474	4,283	5,588

-- = Not Applicable.

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NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Includes value for the Strategic Petroleum Reserve. See Table 25 for the breakout of Commercial Crude Oil.

⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

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Table 16. PAD District 3 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil⁶	5,472	--	--	3,149	234	36	85	8,527	280	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	1,926	-1	412	9	601	--	39	291	813	1,804
Pentanes Plus	215	-1	--	8	-98	--	14	88	2	21
Liquefied Petroleum Gases	1,711	--	412	1	699	--	25	203	812	1,783
Ethane/Ethylene	790	--	4	--	309	--	53	--	5	1,045
Propane/Propylene	594	--	377	--	292	--	-22	--	721	564
Normal Butane/Butylene	123	--	38	1	78	--	-5	85	79	80
Isobutane/Isobutylene	204	--	-7	--	20	--	-1	118	6	94
Other Liquids	--	118	--	540	-1,768	-27	1	-1,582	385	60
Hydrogen/Oxygenates/Renewables/										
Other Hydrocarbons	--	118	--	29	147	121	2	295	118	0
Hydrogen	--	--	--	--	--	131	--	131	--	0
Oxygenates (excluding Fuel Ethanol)	--	73	--	11	--	-9	2	3	70	0
Renewable Fuels (including Fuel Ethanol)	--	46	--	17	147	-1	1	161	47	0
Fuel Ethanol	--	26	--	0	145	16	-3	145	46	0
Renewable Fuels Except Fuel Ethanol	--	19	--	17	2	-18	3	16	1	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	466	17	--	5	257	161	60
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	45	-1,932	-147	-6	-2,134	106	0
Reformulated	--	--	--	2	-423	106	0	-316	0	0
Conventional	--	--	--	43	-1,509	-253	-6	-1,818	106	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	0	0	--	0
Finished Petroleum Products	--	--	7,443	153	-1,709	156	7	--	2,447	3,590
Finished Motor Gasoline	--	--	2,224	2	-248	131	1	--	566	1,543
Reformulated	--	--	458	--	0	-126	--	--	--	332
Conventional	--	--	1,767	2	-248	257	1	--	566	1,211
Finished Aviation Gasoline	--	--	7	0	-18	--	0	--	--	-10
Kerosene-Type Jet Fuel	--	--	852	--	-499	--	2	--	137	214
Kerosene	--	--	7	--	0	--	0	--	7	0
Distillate Fuel Oil	--	--	2,715	10	-934	25	7	--	1,022	787
15 ppm sulfur and under	--	--	2,467	1	-861	25	7	--	888	736
Greater than 15 ppm to 500 ppm sulfur	--	--	98	1	-12	--	-2	--	90	-1
Greater than 500 ppm sulfur	--	--	149	9	-61	--	2	--	44	52
Residual Fuel Oil ⁷	--	--	202	73	25	--	-2	--	214	88
Less than 0.31 percent sulfur	--	--	31	6	1	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	15	12	0	--	8	--	NA	NA
Greater than 1.00 percent sulfur	--	--	156	55	24	--	-9	--	NA	NA
Petrochemical Feedstocks	--	--	258	25	3	--	1	--	--	286
Naphtha for Petro. Feed. Use	--	--	165	22	3	--	0	--	--	190
Other Oils for Petro. Feed. Use	--	--	93	3	0	--	0	--	--	96
Special Naphthas	--	--	31	12	-1	--	0	--	--	43
Lubricants	--	--	130	25	-24	--	-2	--	59	75
Waxes	--	--	3	1	--	--	0	--	1	4
Petroleum Coke	--	--	511	3	--	--	3	--	428	83
Marketable	--	--	390	3	--	--	3	--	428	-38
Catalyst	--	--	121	--	--	--	--	--	--	121
Asphalt and Road Oil	--	--	78	0	-13	--	-2	--	12	56
Still Gas	--	--	367	--	--	--	--	--	--	367
Miscellaneous Products	--	--	57	--	0	--	0	--	1	56
Total	7,399	118	7,855	3,850	-2,641	165	131	7,236	3,925	5,453

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⁷ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 17. PAD District 4 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	19,362	--	--	9,498	-11,621	802	-638	18,655	24	0	23,320
Natural Gas Plant Liquids and Liquefied Refinery Gases	10,938	-10	96	371	-10,043	--	-637	714	391	884	3,345
Pentanes Plus	1,750	-10	--	--	-1,392	--	-3	104	390	-143	304
Liquefied Petroleum Gases	9,188	--	96	371	-8,651	--	-634	610	0	1,028	3,041
Ethane/Ethylene	2,552	--	--	--	-2,450	--	-16	--	--	118	436
Propane/Propylene	4,234	--	293	370	-3,612	--	-152	--	0	1,437	1,353
Normal Butane/Butylene	1,641	--	-211	--	-1,733	--	-456	421	0	-268	994
Isobutane/Isobutylene	761	--	14	1	-856	--	-10	189	--	-259	258
Other Liquids	--	434	--	12	-54	-641	183	-457	44	-19	8,868
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	434	--	8	586	148	-2	1,178	0	0	367
Hydrogen	--	--	--	--	--	225	--	225	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	434	--	8	586	-77	-2	953	0	0	367
Fuel Ethanol	--	434	--	--	510	-31	-4	917	--	0	353
Renewable Fuels Except Fuel Ethanol	--	--	--	8	77	-47	2	36	0	0	14
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	159	-184	44	-19	2,829
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	4	-640	-789	26	-1,451	--	0	5,672
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-640	-789	26	-1,451	--	0	5,672
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	19,711	88	-555	866	-4	--	25	20,089	8,993
Finished Motor Gasoline	--	--	9,449	--	-533	820	-212	--	1	9,947	2,238
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	9,449	--	-533	820	-212	--	1	9,947	2,238
Finished Aviation Gasoline	--	--	5	--	--	--	1	--	--	4	9
Kerosene-Type Jet Fuel	--	--	999	5	329	--	-162	--	--	1,495	600
Kerosene	--	--	--	--	--	--	0	--	--	0	1
Distillate Fuel Oil	--	--	6,274	9	-326	47	66	--	0	5,938	4,316
15 ppm sulfur and under	--	--	6,249	9	-326	47	30	--	0	5,949	4,042
Greater than 15 ppm to 500 ppm sulfur	--	--	13	--	--	--	24	--	--	-11	220
Greater than 500 ppm sulfur	--	--	12	--	--	--	12	--	--	0	54
Residual Fuel Oil ⁶	--	--	387	--	--	--	-3	--	12	378	224
Less than 0.31 percent sulfur	--	--	237	--	--	--	-1	--	NA	NA	34
0.31 to 1.00 percent sulfur	--	--	11	--	--	--	0	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	139	--	--	--	-2	--	NA	NA	186
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	10	-10	--
Waxes	--	--	--	--	--	--	--	--	0	0	--
Petroleum Coke	--	--	816	--	--	--	-37	--	0	853	144
Marketable	--	--	571	--	--	--	-37	--	0	608	144
Catalyst	--	--	245	--	--	--	--	--	--	245	--
Asphalt and Road Oil	--	--	978	73	--	--	345	--	2	704	1,444
Still Gas	--	--	707	--	--	--	--	--	--	707	--
Miscellaneous Products	--	--	96	1	-25	--	-2	--	--	74	17
Total	30,300	424	19,807	9,969	-22,273	1,027	-1,096	18,912	484	20,954	44,526

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 18. PAD District 4 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	241,318	--	--	119,001	-133,654	-1,606	3,634	218,870	2,555	0	23,320
Natural Gas Plant Liquids and Liquefied Refinery Gases	132,880	-116	4,787	3,736	-119,278	--	-277	7,189	2,165	12,932	3,345
Pentanes Plus	21,524	-116	--	--	-16,656	--	-6	2,061	1,722	975	304
Liquefied Petroleum Gases	111,356	--	4,787	3,736	-102,622	--	-271	5,128	443	11,957	3,041
Ethane/Ethylene	33,257	--	--	--	-30,812	--	4	--	--	2,441	436
Propane/Propylene	49,709	--	3,384	3,549	-44,765	--	-166	--	24	12,019	1,353
Normal Butane/Butylene	19,513	--	1,194	6	-17,324	--	-32	2,656	419	346	994
Isobutane/Isobutylene	8,877	--	209	181	-9,721	--	-77	2,472	--	-2,849	258
Other Liquids	--	5,028	--	844	5,203	-7,629	-421	2,101	542	1,224	8,868
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	5,028	--	200	4,923	4,070	16	14,105	101	0	367
Hydrogen	--	--	--	--	--	2,494	--	2,494	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0	--
Renewable Fuels (including Fuel Ethanol)	--	5,028	--	146	4,923	1,630	16	11,611	100	0	367
Fuel Ethanol	--	5,028	--	--	4,370	1,627	15	10,991	19	0	353
Renewable Fuels Except Fuel Ethanol	--	--	--	146	553	4	1	620	81	0	14
Other Hydrocarbons	--	--	--	54	--	-54	--	--	--	0	--
Unfinished Oils	--	--	--	--	--	--	-685	-972	433	1,224	2,829
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	644	280	-11,700	248	-11,032	8	0	5,672
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	280	-11,700	248	-11,032	8	0	5,672
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	234,330	620	38	10,069	-98	--	728	244,428	8,993
Finished Motor Gasoline	--	--	114,690	--	-5,066	10,073	-54	--	12	119,739	2,238
Reformulated	--	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	114,690	--	-5,066	10,073	-54	--	12	119,739	2,238
Finished Aviation Gasoline	--	--	56	8	--	--	3	--	--	61	9
Kerosene-Type Jet Fuel	--	--	12,511	19	7,111	--	5	--	0	19,636	600
Kerosene	--	--	1	--	--	--	-1	--	--	2	1
Distillate Fuel Oil	--	--	71,908	58	-1,982	-4	0	--	35	69,945	4,316
15 ppm sulfur and under	--	--	71,558	58	-1,982	-4	-1	--	0	69,631	4,042
Greater than 15 ppm to 500 ppm sulfur	--	--	381	--	--	--	33	--	35	313	220
Greater than 500 ppm sulfur	--	--	-31	--	--	--	-32	--	--	1	54
Residual Fuel Oil ⁶	--	--	3,787	--	--	--	-14	--	472	3,329	224
Less than 0.31 percent sulfur	--	--	2,127	--	--	--	27	--	NA	NA	34
0.31 to 1.00 percent sulfur	--	--	243	--	--	--	-3	--	NA	NA	4
Greater than 1.00 percent sulfur	--	--	1,417	--	--	--	-38	--	NA	NA	186
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	130	-130	--
Waxes	--	--	--	--	--	--	--	--	2	-2	--
Petroleum Coke	--	--	9,209	--	--	--	51	--	2	9,156	144
Marketable	--	--	6,361	--	--	--	51	--	2	6,308	144
Catalyst	--	--	2,848	--	--	--	--	--	--	2,848	--
Asphalt and Road Oil	--	--	12,580	521	--	--	-87	--	75	13,113	1,444
Still Gas	--	--	8,437	--	--	--	--	--	--	8,437	--
Miscellaneous Products	--	--	1,151	14	-25	--	-1	--	0	1,141	17
Total	374,198	4,912	239,117	124,201	-247,691	834	2,838	228,160	5,989	258,584	44,526

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 19. PAD District 4 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	625	--	--	306	-375	26	-21	602	1	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	353	0	3	12	-324	--	-21	23	13	29
Pentanes Plus	56	0	--	--	-45	--	0	3	13	-5
Liquefied Petroleum Gases	296	--	3	12	-279	--	-20	20	0	33
Ethane/Ethylene	82	--	--	--	-79	--	-1	--	--	4
Propane/Propylene	137	--	9	12	-117	--	-5	--	0	46
Normal Butane/Butylene	53	--	-7	--	-56	--	-15	14	0	-9
Isobutane/Isobutylene	25	--	0	0	-28	--	0	6	--	-8
Other Liquids	--	14	--	0	-2	-21	6	-15	1	-1
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	0	19	5	0	38	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	19	-2	0	31	0	0
Fuel Ethanol	--	14	--	--	16	-1	0	30	--	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	2	-2	0	1	0	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	--	--	--	5	-6	1	-1
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	0	-21	-25	1	-47	--	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	-21	-25	1	-47	--	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	636	3	-18	28	0	--	1	648
Finished Motor Gasoline	--	--	305	--	-17	26	-7	--	0	321
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	305	--	-17	26	-7	--	0	321
Finished Aviation Gasoline	--	--	0	--	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	32	0	11	--	-5	--	--	48
Kerosene	--	--	--	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	202	0	-11	2	2	--	0	192
15 ppm sulfur and under	--	--	202	0	-11	2	1	--	0	192
Greater than 15 ppm to 500 ppm sulfur	--	--	0	--	--	--	1	--	--	0
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	12	--	--	--	0	--	0	12
Less than 0.31 percent sulfur	--	--	8	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	26	--	--	--	-1	--	0	28
Marketable	--	--	18	--	--	--	-1	--	0	20
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	32	2	--	--	11	--	0	23
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	3	0	-1	--	0	--	--	2
Total	977	14	639	322	-718	33	-35	610	16	676

-- = Not Applicable.

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NA = Not Available.

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² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 20. PAD District 4 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	659	--	--	325	-365	-4	10	598	7	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	363	0	13	10	-326	--	-1	20	6	35
Pentanes Plus	59	0	--	--	-46	--	0	6	5	3
Liquefied Petroleum Gases	304	--	13	10	-280	--	-1	14	1	33
Ethane/Ethylene	91	--	--	--	-84	--	0	--	--	7
Propane/Propylene	136	--	9	10	-122	--	0	--	0	33
Normal Butane/Butylene	53	--	3	0	-47	--	0	7	1	1
Isobutane/Isobutylene	24	--	1	0	-27	--	0	7	--	-8
Other Liquids	--	14	--	2	14	-21	-1	6	1	3
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	14	--	1	13	11	0	39	0	0
Hydrogen	--	--	--	--	--	7	--	7	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	14	--	0	13	4	0	32	0	0
Fuel Ethanol	--	14	--	--	12	4	0	30	0	0
Renewable Fuels Except Fuel Ethanol	--	--	--	0	2	0	0	2	0	0
Other Hydrocarbons	--	--	--	0	--	0	--	--	--	0
Unfinished Oils	--	--	--	--	--	--	-2	-3	1	3
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	2	1	-32	1	-30	0	0
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	--	--	1	-32	1	-30	0	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	640	2	0	28	0	--	2	668
Finished Motor Gasoline	--	--	313	--	-14	28	0	--	0	327
Reformulated	--	--	--	--	--	--	--	--	--	--
Conventional	--	--	313	--	-14	28	0	--	0	327
Finished Aviation Gasoline	--	--	0	0	--	--	0	--	--	0
Kerosene-Type Jet Fuel	--	--	34	0	19	--	0	--	0	54
Kerosene	--	--	0	--	--	--	0	--	--	0
Distillate Fuel Oil	--	--	196	0	-5	0	0	--	0	191
15 ppm sulfur and under	--	--	196	0	-5	0	0	--	0	190
Greater than 15 ppm to 500 ppm sulfur	--	--	1	--	--	--	0	--	0	1
Greater than 500 ppm sulfur	--	--	0	--	--	--	0	--	--	0
Residual Fuel Oil ⁶	--	--	10	--	--	--	0	--	1	9
Less than 0.31 percent sulfur	--	--	6	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	1	--	--	--	0	--	NA	NA
Greater than 1.00 percent sulfur	--	--	4	--	--	--	0	--	NA	NA
Petrochemical Feedstocks	--	--	--	--	--	--	--	--	--	--
Naphtha for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	--	--	--	--	--	--	--	--
Lubricants	--	--	--	--	--	--	--	--	0	0
Waxes	--	--	--	--	--	--	--	--	0	0
Petroleum Coke	--	--	25	--	--	--	0	--	0	25
Marketable	--	--	17	--	--	--	0	--	0	17
Catalyst	--	--	8	--	--	--	--	--	--	8
Asphalt and Road Oil	--	--	34	1	--	--	0	--	0	36
Still Gas	--	--	23	--	--	--	--	--	--	23
Miscellaneous Products	--	--	3	0	0	--	0	--	0	3
Total	1,022	13	653	339	-677	2	8	623	16	707

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 21. PAD District 5 - Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	31,777	--	--	32,794	4,075	931	-416	69,992	--	0	51,705
Natural Gas Plant Liquids and Liquefied Refinery Gases	2,183	-11	-132	1,109	1,542	--	-1,770	3,470	1,127	1,864	4,398
Pentanes Plus	1,062	-11	--	--	--	--	-1	945	29	78	35
Liquefied Petroleum Gases	1,121	--	-132	1,109	1,542	--	-1,769	2,525	1,098	1,786	4,363
Ethane/Ethylene	1	--	--	--	--	--	--	--	--	1	--
Propane/Propylene	333	--	1,389	891	202	--	-562	--	988	2,389	1,575
Normal Butane/Butylene	410	--	-1,586	192	1,105	--	-1,219	1,771	110	-541	2,316
Isobutane/Isobutylene	377	--	65	26	235	--	12	754	--	-63	472
Other Liquids	--	894	--	3,057	9,684	-1,506	-1,195	12,414	394	516	49,738
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	894	--	799	4,632	381	-7	6,565	148	0	4,050
Hydrogen	--	--	--	--	--	1,193	--	1,193	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	2	--	--	2	0	--
Renewable Fuels (including Fuel Ethanol)	--	894	--	799	4,632	-814	-7	5,372	146	0	4,050
Fuel Ethanol	--	580	--	--	4,442	-398	-269	4,781	113	0	2,473
Renewable Fuels Except Fuel Ethanol	--	314	--	799	189	-416	262	591	34	0	1,577
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	1,900	--	--	-1,115	2,473	26	516	18,572
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	358	5,052	-1,887	-73	3,376	220	0	27,116
Reformulated	--	--	--	--	2,281	-231	662	1,388	--	0	14,324
Conventional	--	--	--	358	2,771	-1,656	-735	1,988	220	0	12,792
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	91,819	5,027	1,757	2,551	92	--	11,797	89,264	32,694
Finished Motor Gasoline	--	--	49,332	28	334	2,285	-531	--	2,836	49,674	2,159
Reformulated	--	--	34,098	--	--	202	-4	--	--	34,304	16
Conventional	--	--	15,234	28	334	2,083	-527	--	2,836	15,371	2,143
Finished Aviation Gasoline	--	--	13	--	--	--	-93	--	--	106	193
Kerosene-Type Jet Fuel	--	--	13,709	2,528	285	--	204	--	1,080	15,238	9,203
Kerosene	--	--	29	--	--	--	1	--	3	25	47
Distillate Fuel Oil	--	--	16,586	117	1,141	266	-196	--	3,740	14,566	12,835
15 ppm sulfur and under	--	--	15,883	116	1,141	266	-141	--	3,569	13,978	11,850
Greater than 15 ppm to 500 ppm sulfur	--	--	312	--	--	--	80	--	114	118	267
Greater than 500 ppm sulfur	--	--	391	1	--	--	-135	--	57	470	718
Residual Fuel Oil ⁶	--	--	2,566	2,232	--	--	627	--	425	3,746	4,478
Less than 0.31 percent sulfur	--	--	--	--	--	--	-97	--	NA	NA	134
0.31 to 1.00 percent sulfur	--	--	760	325	--	--	400	--	NA	NA	849
Greater than 1.00 percent sulfur	--	--	1,806	1,907	--	--	324	--	NA	NA	3,489
Petrochemical Feedstocks	--	--	3	--	--	--	-2	--	--	5	1
Naphtha for Petro. Feed. Use	--	--	3	--	--	--	-2	--	--	5	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	33	--	--	--	-15	--	--	48	29
Lubricants	--	--	49	5	-3	--	-227	--	105	173	598
Waxes	--	--	--	7	--	--	--	--	4	3	--
Petroleum Coke	--	--	4,876	33	--	--	56	--	3,465	1,388	1,213
Marketable	--	--	3,841	33	--	--	56	--	3,465	353	1,213
Catalyst	--	--	1,035	--	--	--	--	--	--	1,035	--
Asphalt and Road Oil	--	--	687	77	--	--	273	--	40	451	1,861
Still Gas	--	--	3,504	--	--	--	--	--	--	3,504	--
Miscellaneous Products	--	--	432	--	--	--	-5	--	99	338	77
Total	33,960	883	91,687	41,987	17,058	1,975	-3,289	85,876	13,319	91,644	138,535

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 22. PAD District 5 - Year-to-Date Supply, Disposition, and Ending Stocks of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels)

Commodity	Supply						Disposition				Ending Stocks
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵	
Crude Oil	373,471	--	--	424,706	49,263	12,994	-2,439	859,563	3,311	0	51,705
Natural Gas Plant Liquids and Liquefied Refinery Gases	23,245	-156	20,401	6,854	10,680	--	-535	28,762	14,998	17,799	4,398
Pentanes Plus	10,935	-156	--	--	--	--	-9	9,201	198	1,389	35
Liquefied Petroleum Gases	12,310	--	20,401	6,854	10,680	--	-526	19,561	14,801	16,409	4,363
Ethane/Ethylene	20	--	--	--	--	--	--	--	--	20	--
Propane/Propylene	4,034	--	16,886	6,085	4,207	--	83	--	10,553	20,576	1,575
Normal Butane/Butylene	4,076	--	2,315	700	4,976	--	-613	11,032	4,248	-2,600	2,316
Isobutane/Isobutylene	4,180	--	1,200	69	1,497	--	4	8,529	0	-1,587	472
Other Liquids	--	9,678	--	42,926	115,164	-4,543	-1,548	166,513	6,968	-8,708	49,738
Hydrogen/Oxygenates/Renewables/	--	--	--	--	--	--	--	--	--	--	--
Other Hydrocarbons	--	9,678	--	6,554	54,481	10,771	622	79,362	1,500	0	4,050
Hydrogen	--	--	--	--	--	14,857	--	14,857	--	0	--
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	17	--	--	17	0	--
Renewable Fuels (including Fuel Ethanol)	--	9,678	--	6,554	54,481	-4,103	622	64,505	1,483	0	4,050
Fuel Ethanol	--	6,699	--	756	51,389	-40	-6	57,621	1,189	0	2,473
Renewable Fuels Except Fuel Ethanol	--	2,979	--	5,798	3,092	-4,064	628	6,884	294	0	1,577
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	26,439	--	--	-2,457	36,540	1,064	-8,708	18,572
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	9,933	60,683	-15,314	287	50,611	4,404	0	27,116
Reformulated	--	--	--	727	29,677	-2,180	1,110	27,110	4	0	14,324
Conventional	--	--	--	9,206	31,006	-13,133	-823	23,501	4,401	0	12,792
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	1,104,332	67,321	21,016	18,732	-43	--	119,510	1,091,934	32,694
Finished Motor Gasoline	--	--	587,640	1,022	4,449	15,353	242	--	18,758	589,465	2,159
Reformulated	--	--	408,669	--	--	-1,820	2	--	--	406,847	16
Conventional	--	--	178,971	1,022	4,449	17,174	240	--	18,758	182,618	2,143
Finished Aviation Gasoline	--	--	590	61	24	--	9	--	--	666	193
Kerosene-Type Jet Fuel	--	--	157,258	33,171	2,835	--	717	--	9,122	183,425	9,203
Kerosene	--	--	141	--	--	--	-7	--	28	120	47
Distillate Fuel Oil	--	--	201,970	5,020	13,221	3,379	-1,007	--	34,769	189,827	12,835
15 ppm sulfur and under	--	--	192,444	4,749	13,221	3,379	-853	--	23,796	190,849	11,850
Greater than 15 ppm to 500 ppm sulfur	--	--	3,695	54	--	--	-74	--	4,385	-562	267
Greater than 500 ppm sulfur	--	--	5,831	217	--	--	-80	--	6,588	-460	718
Residual Fuel Oil ⁶	--	--	39,276	25,557	599	--	318	--	11,034	54,080	4,478
Less than 0.31 percent sulfur	--	--	80	--	--	--	-150	--	NA	NA	134
0.31 to 1.00 percent sulfur	--	--	8,017	919	--	--	245	--	NA	NA	849
Greater than 1.00 percent sulfur	--	--	31,179	24,638	--	--	223	--	NA	NA	3,489
Petrochemical Feedstocks	--	--	44	336	--	--	-1	--	--	381	1
Naphtha for Petro. Feed. Use	--	--	44	336	--	--	-1	--	--	381	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	352	--	--	--	-33	--	--	385	29
Lubricants	--	--	4,866	197	-112	--	-412	--	2,298	3,065	598
Waxes	--	--	--	497	--	--	--	--	80	417	--
Petroleum Coke	--	--	54,339	346	--	--	11	--	42,825	11,849	1,213
Marketable	--	--	42,117	346	--	--	11	--	42,825	-373	1,213
Catalyst	--	--	12,222	--	--	--	--	--	--	12,222	--
Asphalt and Road Oil	--	--	9,141	1,114	--	--	108	--	486	9,661	1,861
Still Gas	--	--	44,022	--	--	--	--	--	--	44,022	--
Miscellaneous Products	--	--	4,693	--	--	--	12	--	109	4,572	77
Total	396,716	9,522	1,124,733	541,807	196,123	27,183	-4,565	1,054,838	144,787	1,101,025	138,535

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks.

Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 23. PAD District 5 - Daily Average Supply and Disposition of Crude Oil and Petroleum Products, December 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,025	--	--	1,058	131	30	-13	2,258	--	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	70	0	-4	36	50	--	-57	112	36	60
Pentanes Plus	34	0	--	--	--	--	0	30	1	3
Liquefied Petroleum Gases	36	--	-4	36	50	--	-57	81	35	58
Ethane/Ethylene	0	--	--	--	--	--	--	--	--	0
Propane/Propylene	11	--	45	29	7	--	-18	--	32	77
Normal Butane/Butylene	13	--	-51	6	36	--	-39	57	4	-17
Isobutane/Isobutylene	12	--	2	1	8	--	0	24	--	-2
Other Liquids	--	29	--	99	312	-49	-39	400	13	17
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	29	--	26	149	12	0	212	5	0
Hydrogen	--	--	--	--	--	38	--	38	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	29	--	26	149	-26	0	173	5	0
Fuel Ethanol	--	19	--	--	143	-13	-9	154	4	0
Renewable Fuels Except Fuel Ethanol	--	10	--	26	6	-13	8	19	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	61	--	--	-36	80	1	17
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	12	163	-61	-2	109	7	0
Reformulated	--	--	--	--	74	-7	21	45	--	0
Conventional	--	--	--	12	89	-53	-24	64	7	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	2,962	162	57	82	3	--	381	2,879
Finished Motor Gasoline	--	--	1,591	1	11	74	-17	--	91	1,602
Reformulated	--	--	1,100	--	--	7	0	--	--	1,107
Conventional	--	--	491	1	11	67	-17	--	91	496
Finished Aviation Gasoline	--	--	0	--	--	--	-3	--	--	3
Kerosene-Type Jet Fuel	--	--	442	82	9	--	7	--	35	492
Kerosene	--	--	1	--	--	--	0	--	0	1
Distillate Fuel Oil	--	--	535	4	37	9	-6	--	121	470
15 ppm sulfur and under	--	--	512	4	37	9	-5	--	115	451
Greater than 15 ppm to 500 ppm sulfur	--	--	10	--	--	--	3	--	4	4
Greater than 500 ppm sulfur	--	--	13	0	--	--	-4	--	2	15
Residual Fuel Oil ⁶	--	--	83	72	--	--	20	--	14	121
Less than 0.31 percent sulfur	--	--	--	--	--	--	-3	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	25	10	--	--	13	--	NA	NA
Greater than 1.00 percent sulfur	--	--	58	62	--	--	10	--	NA	NA
Petrochemical Feedstocks	--	--	0	--	--	--	0	--	--	0
Naphtha for Petro. Feed. Use	--	--	0	--	--	--	0	--	--	0
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	2
Lubricants	--	--	2	0	0	--	-7	--	3	6
Waxes	--	--	--	0	--	--	--	--	0	0
Petroleum Coke	--	--	157	1	--	--	2	--	112	45
Marketable	--	--	124	1	--	--	2	--	112	11
Catalyst	--	--	33	--	--	--	--	--	--	33
Asphalt and Road Oil	--	--	22	2	--	--	9	--	1	15
Still Gas	--	--	113	--	--	--	--	--	--	113
Miscellaneous Products	--	--	14	--	--	--	0	--	3	11
Total	1,095	28	2,958	1,354	550	64	-106	2,770	430	2,956

-- = Not Applicable.

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NA = Not Available.

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³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 24. PAD District 5 - Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January-December 2016
(Thousand Barrels per Day)

Commodity	Supply						Disposition			
	Field Production	Renewable Fuels and Oxygenate Plant Net Production	Refinery and Blender Net Production	Imports (PADD of Entry) ¹	Net Receipts ²	Adjustments ³	Stock Change ⁴	Refinery and Blender Net Inputs	Exports	Products Supplied ⁵
Crude Oil	1,020	--	--	1,160	135	36	-7	2,349	9	0
Natural Gas Plant Liquids and Liquefied										
Refinery Gases	64	0	56	19	29	--	-1	79	41	49
Pentanes Plus	30	0	--	--	--	--	0	25	1	4
Liquefied Petroleum Gases	34	--	56	19	29	--	-1	53	40	45
Ethane/Ethylene	0	--	--	--	--	--	--	--	--	0
Propane/Propylene	11	--	46	17	11	--	0	--	29	56
Normal Butane/Butylene	11	--	6	2	14	--	-2	30	12	-7
Isobutane/Isobutylene	11	--	3	0	4	--	0	23	0	-4
Other Liquids	--	26	--	117	315	-12	-4	455	19	-24
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	--	26	--	18	149	29	2	217	4	0
Hydrogen	--	--	--	--	--	41	--	41	--	0
Oxygenates (excluding Fuel Ethanol)	--	--	--	--	--	0	--	--	0	0
Renewable Fuels (including Fuel Ethanol)	--	26	--	18	149	-11	2	176	4	0
Fuel Ethanol	--	18	--	2	140	0	0	157	3	0
Renewable Fuels Except Fuel Ethanol	--	8	--	16	8	-11	2	19	1	0
Other Hydrocarbons	--	--	--	--	--	--	--	--	--	--
Unfinished Oils	--	--	--	72	--	--	-7	100	3	-24
Motor Gasoline Blend.Comp. (MGBC)	--	--	--	27	166	-42	1	138	12	0
Reformulated	--	--	--	2	81	-6	3	74	0	0
Conventional	--	--	--	25	85	-36	-2	64	12	0
Aviation Gasoline Blend. Comp.	--	--	--	--	--	--	--	--	--	--
Finished Petroleum Products	--	--	3,017	184	57	51	0	--	327	2,983
Finished Motor Gasoline	--	--	1,606	3	12	42	1	--	51	1,611
Reformulated	--	--	1,117	--	--	-5	0	--	--	1,112
Conventional	--	--	489	3	12	47	1	--	51	499
Finished Aviation Gasoline	--	--	2	0	0	--	0	--	--	2
Kerosene-Type Jet Fuel	--	--	430	91	8	--	2	--	25	501
Kerosene	--	--	0	--	--	--	0	--	0	0
Distillate Fuel Oil	--	--	552	14	36	9	-3	--	95	519
15 ppm sulfur and under	--	--	526	13	36	9	-2	--	65	521
Greater than 15 ppm to 500 ppm sulfur	--	--	10	0	--	--	0	--	12	-2
Greater than 500 ppm sulfur	--	--	16	1	--	--	0	--	18	-1
Residual Fuel Oil ⁶	--	--	107	70	2	--	1	--	30	148
Less than 0.31 percent sulfur	--	--	0	--	--	--	0	--	NA	NA
0.31 to 1.00 percent sulfur	--	--	22	3	--	--	1	--	NA	NA
Greater than 1.00 percent sulfur	--	--	85	67	--	--	1	--	NA	NA
Petrochemical Feedstocks	--	--	0	1	--	--	0	--	--	1
Naphtha for Petro. Feed. Use	--	--	0	1	--	--	0	--	--	1
Other Oils for Petro. Feed. Use	--	--	--	--	--	--	--	--	--	--
Special Naphthas	--	--	1	--	--	--	0	--	--	1
Lubricants	--	--	13	1	0	--	-1	--	6	8
Waxes	--	--	--	1	--	--	--	--	0	1
Petroleum Coke	--	--	148	1	--	--	0	--	117	32
Marketable	--	--	115	1	--	--	0	--	117	-1
Catalyst	--	--	33	--	--	--	--	--	--	33
Asphalt and Road Oil	--	--	25	3	--	--	0	--	1	26
Still Gas	--	--	120	--	--	--	--	--	--	120
Miscellaneous Products	--	--	13	--	--	--	0	--	0	12
Total	1,084	26	3,073	1,480	536	74	-12	2,882	396	3,008

-- = Not Applicable.

-- = No Data Reported.

NA = Not Available.

¹ Represents the PAD District in which the material entered the United States and not necessarily where the crude oil or product is processed and/or consumed.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

³ Includes an adjustment for crude oil, previously referred to as 'Unaccounted For Crude Oil.' Also included is an adjustment for motor gasoline blending components, fuel ethanol, and distillate fuel oil. See Appendix B, Note 2C for a detailed explanation of these adjustments.

⁴ A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

⁵ Product supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, plus net receipts, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

⁶ Total residual fuel oil ending stocks and stock change include stocks held at pipelines. Residual fuel oil ending stocks and stock change by sulfur content exclude pipeline stocks. Therefore, the sum of residual fuel oil ending stocks and stock change by sulfur content may not equal total residual fuel oil ending stocks and stock change.

Notes: Totals may not equal sum of components due to independent rounding. Domestic crude oil field production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", Forms EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," EIA-817, "Monthly Tanker and Barge Movements Report," and EIA-819, "Monthly Oxygenate Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 25. Crude Oil Supply, Disposition, and Ending Stocks by PAD District, December 2016
(Thousand Barrels, Except Where Noted)

Process	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Supply							
Field Production	1,301	48,293	171,552	19,362	31,777	272,284	8,783
Alaskan	--	--	--	--	--	16,095	519
Lower 48 States	--	--	--	--	--	256,190	8,264
Imports (PAD District of Entry)	26,327	80,780	94,265	9,498	32,794	243,664	7,860
Commercial	26,327	80,780	94,265	9,498	32,794	243,664	7,860
Strategic Petroleum Reserve (SPR)	--	--	--	--	--	--	--
Net Receipts	3,450	-2,337	6,434	-11,621	4,075	--	--
Adjustments ¹	-44	-4,336	8,004	802	931	5,357	173
Disposition							
Stock Change ²	-1,918	1,897	-3,235	-638	-416	-4,310	-139
Commercial	--	--	-3,233	--	--	-4,308	-139
SPR	--	--	-2	--	--	-2	0
Refinery Inputs	32,952	115,145	275,180	18,655	69,992	511,924	16,514
Exports	--	5,358	8,309	24	--	13,691	442
Ending Stocks							
Total	12,245	151,279	940,865	23,320	51,705	1,179,414	--
Commercial	12,245	151,279	245,783	23,320	51,705	484,332	--
Refinery	8,847	13,872	42,318	2,605	25,114	92,756	--
Tank Farms and Pipelines	3,398	137,407	203,465	20,715	22,557	387,542	--
Cushing, Oklahoma	--	67,740	--	--	--	67,740	--
Lease	--	--	--	--	--	--	--
Alaskan Crude Oil In-Transit by Water	--	--	--	--	4,034	4,034	--
SPR	--	--	695,082	--	--	695,082	--
SPR Stocks							
Percent of Total Crude Oil Stocks (Percent)	--	--	--	--	--	58.9	--
Percent of Total Petroleum Stocks (Percent)	--	--	--	--	--	34.2	--
Days of Total Petroleum Net Imports (Days)	--	--	--	--	--	160	--
SPR Receipts Detail							
Receipts	--	--	--	--	--	--	--
Domestic	--	--	--	--	--	--	--
Imports	--	--	--	--	--	--	--
Imported by SPR	--	--	--	--	--	--	--
Imported for SPR by Others	--	--	--	--	--	--	--
Imports							
PAD District of Entry	26,327	80,780	94,265	9,498	32,794	243,664	7,860
PAD District of Processing	26,479	74,836	101,418	7,537	33,394	243,664	7,860

-- = Not Applicable.

-- = No Data Reported.

¹ Crude oil adjustment was previously referred to as Unaccounted-for Crude Oil.

² A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks. Stock change for crude oil excludes lease stocks beginning with January 2005 (see explanatory notes).

Notes: Totals may not equal the sum of components due to independent rounding. Values of Domestic Crude Oil Field Production are estimates.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-813, "Monthly Crude Oil Report," EIA-814, "Monthly Imports Report," and EIA-817, "Monthly Tanker and Barge Movements Report." Domestic crude oil field production estimates based on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," and data from State conservation agencies, U.S. Department of Interior, and the Bureau of Ocean Energy Management. Export data from the U.S. Census Bureau and EIA estimates. Rail net receipts estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 26. Production of Crude Oil by PAD District and State, December 2016
(Thousand Barrels)

PAD District and State	December 2016		January-December 2016	
	Total	Daily Average	Total	Daily Average
PAD District 1	1,301	42	16,408	45
Florida	154	5	1,934	5
New York	24	1	280	1
Pennsylvania	479	15	6,180	17
Virginia	1	0	11	0
West Virginia	643	21	8,003	22
PAD District 2	48,293	1,558	614,570	1,679
Illinois	719	23	8,620	24
Indiana	159	5	1,817	5
Kansas	2,897	93	37,026	101
Kentucky	369	12	2,595	7
Michigan	461	15	5,671	15
Missouri	10	0	126	0
Nebraska	186	6	2,248	6
North Dakota	29,253	944	378,755	1,035
Ohio	1,459	47	22,161	61
Oklahoma	12,654	408	153,893	420
South Dakota	108	3	1,407	4
Tennessee	20	1	252	1
PAD District 3	171,552	5,534	2,002,781	5,472
Alabama	700	23	8,269	23
Arkansas	428	14	5,381	15
Louisiana	4,363	141	56,736	155
Mississippi	1,686	54	21,075	58
New Mexico	12,999	419	147,285	402
Texas	97,801	3,155	1,176,111	3,213
Federal Offshore PAD District 3	53,575	1,728	587,923	1,606
PAD District 4	19,362	625	241,318	659
Colorado	9,135	295	115,379	315
Montana	1,786	58	23,216	63
Utah	2,617	84	30,415	83
Wyoming	5,824	188	72,308	198
PAD District 5	31,777	1,025	373,471	1,020
Alaska	16,095	519	179,170	490
South Alaska	452	15	5,643	15
North Slope	15,643	505	173,527	474
Arizona	0	0	6	0
California	15,268	493	187,605	513
Nevada	21	1	277	1
Federal Offshore PAD District 5	392	13	6,413	18
U.S. Total	272,284	8,783	3,248,548	8,876

– = No Data Reported.

Note: Year-to-date totals include revised monthly production estimates by state published in Petroleum Navigator. Crude oil production quantities are estimated by state and summed to the PADD and the U.S. level. State production estimates reported by EIA are normally different from data reported by state agencies. For example, production estimates for Texas reported on table 26 are different from production reported by the Railroad Commission of Texas. See EIA "Today In Energy" article released on July 10, 2015 (<http://www.eia.gov/todayinenergy/detail.cfm?id=22012>) for an explanation of differences in production data for Texas. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report," state government agencies, U.S. Department of the Interior, and the Bureau of Ocean Energy Management.

Table 27. Natural Gas Plant Net Production and Stocks of Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels)

Commodity	Production						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Natural Gas Plant Liquids	12	11,738	11,750	5,910	5,238	10,659	21,807
Pentanes Plus	—	1,108	1,108	436	666	1,419	2,521
Liquefied Petroleum Gases	12	10,630	10,642	5,474	4,572	9,240	19,286
Ethane	—	4,996	4,996	2,045	1,322	3,076	6,443
Propane	4	3,885	3,889	2,401	2,107	4,086	8,594
Normal Butane	8	1,161	1,169	604	917	1,170	2,691
Isobutane	—	588	588	424	226	908	1,558

Commodity	Production								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Natural Gas Plant Liquids	39,131	5,800	5,871	873	5,323	56,998	10,938	2,183	103,676
Pentanes Plus	4,046	485	658	207	566	5,962	1,750	1,062	12,403
Liquefied Petroleum Gases	35,085	5,315	5,213	666	4,757	51,036	9,188	1,121	91,273
Ethane	16,448	2,874	2,184	211	2,072	23,789	2,552	1	37,781
Propane	12,111	1,566	1,938	257	1,791	17,663	4,234	333	34,713
Normal Butane	4,008	-2,132	667	115	494	3,152	1,641	410	9,063
Isobutane	2,518	3,007	424	83	400	6,432	761	377	9,716

Commodity	Stocks						
	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Natural Gas Plant Liquids	6	252	258	938	140	397	1,475
Pentanes Plus	—	60	60	79	40	68	187
Liquefied Petroleum Gases	6	192	198	859	100	329	1,288
Ethane	—	—	—	82	2	96	180
Propane	3	135	138	547	46	116	709
Normal Butane	3	42	45	113	41	82	236
Isobutane	—	15	15	117	11	35	163

Commodity	Stocks								
	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Natural Gas Plant Liquids	166	3,348	480	25	—	4,019	124	255	6,131
Pentanes Plus	27	14	186	4	—	231	36	27	541
Liquefied Petroleum Gases	139	3,334	294	21	—	3,788	88	228	5,590
Ethane	1	741	—	—	—	742	—	—	922
Propane	81	1,875	24	15	—	1,995	49	15	2,906
Normal Butane	49	336	186	6	—	577	30	186	1,074
Isobutane	8	382	84	—	—	474	9	27	688

— = No Data Reported.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-816, "Monthly Natural Gas Liquids Report."

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	30,038	2,914	32,952	74,011	14,978	26,156	115,145
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	1,493	1	1,494	2,747	250	1,337	4,334
Pentanes Plus	244	—	244	1	13	383	397
Liquefied Petroleum Gases	1,249	1	1,250	2,746	237	954	3,937
Normal Butane	1,018	1	1,019	1,635	191	471	2,297
Isobutane	231	—	231	1,111	46	483	1,640
Other Liquids	76,297	6,494	82,791	9,180	3,494	1,163	13,837
Hydrogen/Oxygenates/Renewables/							
Other Hydrocarbons	9,977	807	10,784	5,987	1,519	1,853	9,359
Hydrogen	106	2	108	768	288	204	1,260
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,871	805	10,676	5,173	1,231	1,649	8,053
Fuel Ethanol	9,527	739	10,266	4,905	1,181	1,579	7,665
Renewable Diesel Fuel	344	66	410	268	50	70	388
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	46	—	—	46
Unfinished Oils (net)	2,112	-49	2,063	-123	9	232	118
Naphthas and Lighter	751	4	755	210	-50	363	523
Kerosene and Light Gas Oils	-214	-2	-216	-252	-43	-59	-354
Heavy Gas Oils	1,438	-38	1,400	176	102	-25	253
Residuum	137	-13	124	-257	—	-47	-304
Motor Gasoline Blend.Comp. (MGBC)(net)	64,208	5,736	69,944	3,316	1,966	-922	4,360
Reformulated - RBOB	17,549	—	17,549	-626	883	759	1,016
Conventional	46,659	5,736	52,395	3,942	1,083	-1,681	3,344
CBOB	39,522	5,734	45,256	3,954	937	-1,730	3,161
GTAB	1,450	—	1,450	—	—	—	—
Other	5,687	2	5,689	-12	146	49	183
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	107,828	9,409	117,237	85,938	18,722	28,656	133,316

See footnotes at end of table.

Table 28. Refinery and Blender Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	19,979	138,329	107,104	6,283	3,485	275,180	18,655	69,992	511,924
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	819	5,136	4,488	110	177	10,730	714	3,470	20,742
Pentanes Plus	237	1,211	1,152	7	—	2,607	104	945	4,297
Liquefied Petroleum Gases	582	3,925	3,336	103	177	8,123	610	2,525	16,445
Normal Butane	339	2,064	1,965	42	8	4,418	421	1,771	9,926
Isobutane	243	1,861	1,371	61	169	3,705	189	754	6,519
Other Liquids	8,778	-38,386	-31,792	7,472	-303	-54,231	-457	12,414	54,354
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	2,067	3,268	2,510	1,152	234	9,231	1,178	6,565	37,117
Hydrogen	23	2,269	1,873	82	42	4,289	225	1,193	7,075
Oxygenates (excluding Fuel Ethanol)	—	95	—	—	—	95	—	—	95
Methyl Tertiary Butyl Ether (MTBE)	—	95	—	—	—	95	—	—	95
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	2,044	904	637	1,070	192	4,847	953	5,372	29,901
Fuel Ethanol	1,959	816	454	1,026	159	4,414	917	4,781	28,043
Renewable Diesel Fuel	85	88	183	44	33	433	36	586	1,853
Other Renewable Fuels	—	—	—	—	—	—	—	5	5
Other Hydrocarbons	—	—	—	—	—	—	—	—	46
Unfinished Oils (net)	-165	-308	8,399	-57	-201	7,668	-184	2,473	12,138
Naphthas and Lighter	84	-5,588	947	-43	-86	-4,686	-24	-482	-3,914
Kerosene and Light Gas Oils	-124	-638	1,520	-46	-88	624	-258	169	-35
Heavy Gas Oils	-96	5,582	4,781	66	-27	10,306	214	1,932	14,105
Residuum	-29	336	1,151	-34	—	1,424	-116	854	1,982
Motor Gasoline Blend.Comp. (MGBC)(net)	6,868	-41,346	-42,701	6,377	-336	-71,138	-1,451	3,376	5,091
Reformulated - RBOB	5,430	-9,327	-2,782	—	-552	-7,231	—	1,388	12,722
Conventional	1,438	-32,019	-39,919	6,377	216	-63,907	-1,451	1,988	-7,631
CBOB	1,640	-33,764	-37,957	6,377	177	-63,527	-1,567	1,989	-14,688
GTAB	—	—	—	—	—	—	—	—	1,450
Other	-202	1,745	-1,962	0	39	-380	116	-1	5,607
Aviation Gasoline Blend. Comp. (net)	8	—	—	—	—	8	—	—	8
Total Input	29,576	105,079	79,800	13,865	3,359	231,679	18,912	85,876	587,020

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Liquefied Refinery Gases	52	-33	19	969	-214	-471	284
Ethane/Ethylene	19	-	19	-	-	-	-
Ethane	-	-	-	-	-	-	-
Ethylene	19	-	19	-	-	-	-
Propane/Propylene	1,062	25	1,087	2,461	424	684	3,569
Propane	618	25	643	1,601	243	464	2,308
Propylene	444	-	444	860	181	220	1,261
Normal Butane/Butylene	-869	-37	-906	-1,415	-549	-1,086	-3,050
Normal Butane	-783	-37	-820	-1,398	-549	-1,085	-3,032
Butylene	-86	-	-86	-17	-	-1	-18
Isobutane/Isobutylene	-160	-21	-181	-77	-89	-69	-235
Isobutane	-160	-21	-181	-77	-89	-69	-235
Isobutylene	-	-	-	-	-	-	-
Finished Motor Gasoline	91,701	7,698	99,399	52,078	11,478	16,684	80,240
Reformulated	40,436	-	40,436	8,866	1,588	1,077	11,531
Reformulated Blended with Fuel Ethanol	40,436	-	40,436	8,866	1,588	1,077	11,531
Reformulated Other	-	-	-	-	-	-	-
Conventional	51,265	7,698	58,963	43,212	9,890	15,607	68,709
Conventional Blended with Fuel Ethanol	54,057	7,456	61,513	39,630	10,163	14,475	64,268
Ed55 and Lower	54,023	7,456	61,479	39,621	10,143	14,428	64,192
Greater than Ed55	34	-	34	9	20	47	76
Conventional Other	-2,792	242	-2,550	3,582	-273	1,132	4,441
Finished Aviation Gasoline	-	-	-	-	74	-	74
Kerosene-Type Jet Fuel	2,567	-	2,567	5,807	722	882	7,411
Kerosene	162	9	171	231	-	21	252
Distillate Fuel Oil	10,208	822	11,030	19,905	4,964	10,268	35,137
15 ppm sulfur and under	7,934	746	8,680	19,933	4,856	10,198	34,987
Greater than 15 ppm to 500 ppm sulfur	256	64	320	-35	137	84	186
Greater than 500 ppm sulfur	2,018	12	2,030	7	-29	-14	-36
Residual Fuel Oil	1,547	8	1,555	1,183	342	61	1,586
Less than 0.31 percent sulfur	351	8	359	-	83	-	83
0.31 to 1.00 percent sulfur	180	-	180	168	73	-	241
Greater than 1.00 percent sulfur	1,016	-	1,016	1,015	186	61	1,262
Petrochemical Feedstocks	103	-	103	853	-15	20	858
Naphtha for Petro. Feed. Use	103	-	103	615	-15	-	600
Other Oils for Petro. Feed. Use	-	-	-	238	-	20	258
Special Naphthas	-	17	17	40	-	14	54
Lubricants	220	182	402	-	-	220	220
Waxes	-	-7	-7	-	-	33	33
Petroleum Coke	1,216	20	1,236	4,404	796	951	6,151
Marketable	505	-	505	3,285	616	754	4,655
Catalyst	711	20	731	1,119	180	197	1,496
Asphalt and Road Oil	394	594	988	2,317	971	270	3,558
Still Gas	1,253	55	1,308	2,757	606	1,097	4,460
Miscellaneous Products	66	34	100	343	111	66	520
Total	109,489	9,399	118,888	90,887	19,835	30,116	140,838
Processing Gain(-) or Loss(+)¹	-1,661	10	-1,651	-4,949	-1,113	-1,460	-7,522

See footnotes at end of table.

Table 29. Refinery and Blender Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Liquefied Refinery Gases	315	4,760	4,761	-52	-1	9,783	96	-132	10,050
Ethane/Ethylene	1	78	2	—	—	81	—	—	100
Ethane	1	68	2	—	—	71	—	—	71
Ethylene	—	10	—	—	—	10	—	—	29
Propane/Propylene	718	6,289	5,011	30	42	12,090	293	1,389	18,428
Propane	351	2,674	2,104	30	42	5,201	286	1,092	9,530
Propylene	367	3,615	2,907	—	—	6,889	7	297	8,898
Normal Butane/Butylene	-415	-1,270	-363	-82	-46	-2,176	-211	-1,586	-7,929
Normal Butane	-416	-1,189	-544	-82	-46	-2,277	-191	-1,561	-7,881
Butylene	1	-81	181	—	—	101	-20	-25	-48
Isobutane/Isobutylene	11	-337	111	—	3	-212	14	65	-549
Isobutane	11	-323	111	—	3	-198	14	65	-535
Isobutylene	—	-14	—	—	—	-14	—	—	-14
Finished Motor Gasoline	20,628	27,687	12,591	9,429	1,717	72,052	9,449	49,332	310,472
Reformulated	7,398	6,358	—	—	—	13,756	—	34,098	99,821
Reformulated Blended with Fuel Ethanol	7,398	6,358	—	—	—	13,756	—	34,098	99,821
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	13,230	21,329	12,591	9,429	1,717	58,296	9,449	15,234	210,651
Conventional Blended with Fuel Ethanol	11,901	1,687	4,511	10,151	1,543	29,793	9,137	13,459	178,170
Ed55 and Lower	11,893	1,687	4,511	10,139	1,543	29,773	9,128	13,456	178,028
Greater than Ed55	8	—	—	12	—	20	9	3	142
Conventional Other	1,329	19,642	8,080	-722	174	28,503	312	1,775	32,481
Finished Aviation Gasoline	77	101	68	—	—	246	5	13	338
Kerosene-Type Jet Fuel	1,281	13,140	11,958	156	—	26,535	999	13,709	51,221
Kerosene	-11	-42	16	30	—	-7	—	29	445
Distillate Fuel Oil	6,044	43,385	37,770	2,314	1,339	90,852	6,274	16,586	159,879
15 ppm sulfur and under	6,096	41,416	31,152	2,271	1,339	82,274	6,249	15,883	148,073
Greater than 15 ppm to 500 ppm sulfur	-6	516	3,106	5	—	3,621	13	312	4,452
Greater than 500 ppm sulfur	-46	1,453	3,512	38	—	4,957	12	391	7,354
Residual Fuel Oil	208	2,460	3,589	-56	133	6,334	387	2,566	12,428
Less than 0.31 percent sulfur	170	11	895	—	—	1,076	237	—	1,755
0.31 to 1.00 percent sulfur	—	182	326	-56	16	468	11	760	1,660
Greater than 1.00 percent sulfur	38	2,267	2,368	—	117	4,790	139	1,806	9,013
Petrochemical Feedstocks	92	5,671	2,907	20	—	8,690	—	3	9,654
Naphtha for Petro. Feed. Use	70	3,975	1,367	20	—	5,432	—	3	6,138
Other Oils for Petro. Feed. Use	22	1,696	1,540	—	—	3,258	—	—	3,516
Special Naphthas	77	638	—	187	—	902	—	33	1,006
Lubricants	33	1,827	1,584	815	—	4,259	—	49	4,930
Waxes	—	31	41	26	—	98	—	—	124
Petroleum Coke	392	9,085	6,512	122	61	16,172	816	4,876	29,251
Marketable	155	7,008	5,133	108	—	12,404	571	3,841	21,976
Catalyst	237	2,077	1,379	14	61	3,768	245	1,035	7,275
Asphalt and Road Oil	235	283	712	849	22	2,101	978	687	8,312
Still Gas	796	5,958	4,455	160	78	11,447	707	3,504	21,426
Miscellaneous Products	50	1,089	666	23	28	1,856	96	432	3,004
Total	30,217	116,073	87,630	14,023	3,377	251,320	19,807	91,687	622,540
Processing Gain(-) or Loss(+) ¹	-641	-10,994	-7,830	-158	-18	-19,641	-895	-5,811	-35,520

— = No Data Reported.

¹ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," and EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels, Except Where Noted)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	30,038	2,914	32,952	74,011	14,978	26,156	115,145
Natural Gas Plant Liquids	642	—	642	2,604	172	775	3,551
Pentanes Plus	—	—	—	1	—	273	274
Liquefied Petroleum Gases	642	—	642	2,603	172	502	3,277
Normal Butane	411	—	411	1,492	126	19	1,637
Isobutane	231	—	231	1,111	46	483	1,640
Other Liquids	-14,155	82	-14,073	-36,432	-5,792	-12,490	-54,714
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	180	133	313	1,066	459	311	1,836
Hydrogen	106	2	108	768	288	204	1,260
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	74	131	205	252	171	107	530
Fuel Ethanol	74	109	183	158	155	102	415
Renewable Diesel Fuel	—	22	22	94	16	5	115
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	46	—	—	46
Unfinished Oils (net)	2,118	-47	2,071	-161	9	232	80
Naphthas and Lighter	751	4	755	210	-50	363	523
Kerosene and Light Gas Oils	-214	—	-214	-186	-43	-59	-288
Heavy Gas Oils	1,444	-38	1,406	175	102	-25	252
Residuum	137	-13	124	-360	—	-47	-407
Motor Gasoline Blend.Comp. (MGBC)(net)	-16,453	-4	-16,457	-37,337	-6,260	-13,033	-56,630
Reformulated - RBOB	-11,090	—	-11,090	-8,357	-512	-199	-9,068
Conventional	-5,363	-4	-5,367	-28,980	-5,748	-12,834	-47,562
CBOB	-5,263	-6	-5,269	-27,851	-5,839	-12,883	-46,573
GTAB	—	—	—	—	—	—	—
Other	-100	2	-98	-1,129	91	49	-989
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input to Refineries	16,525	2,996	19,521	40,183	9,358	14,441	63,982
Atmospheric Crude Oil Distillation							
Gross Input (daily average)	970	95	1,065	2,377	483	844	3,705
Operable Capacity (daily average)	1,179	98	1,278	2,594	510	872	3,976
Operable Utilization Rate (percent) ²	82.3	96.5	83.4	91.7	94.7	96.8	93.2
Downstream Processing							
Fresh Feed Input (daily average)							
Catalytic Reforming	159	18	177	421	56	163	640
Catalytic Cracking	394	16	410	753	148	213	1,114
Catalytic Hydrocracking	36	—	36	200	49	62	311
Delayed and Fluid Coking	59	—	59	357	58	92	506
Crude Oil Qualities							
Sulfur Content, Weighted Average (percent)	0.90	1.59	0.96	1.76	2.05	0.89	1.60
API Gravity, Weighted Average (degrees)	34.25	32.91	34.12	31.15	29.22	37.18	32.24
Operable Capacity (daily average)	1,179	98	1,278	2,594	510	872	3,976
Operating	1,147	98	1,246	2,572	510	872	3,954
Idle	32	—	32	22	—	—	22
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—

See footnotes at end of table.

Table 30. Refinery Net Input of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels, Except Where Noted) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	19,979	138,329	107,104	6,283	3,485	275,180	18,655	69,992	511,924
Natural Gas Plant Liquids	760	4,725	4,236	76	177	9,974	591	3,456	18,214
Pentanes Plus	219	1,183	1,152	7	—	2,561	67	945	3,847
Liquefied Petroleum Gases	541	3,542	3,084	69	177	7,413	524	2,511	14,367
Normal Butane	298	1,681	1,713	8	8	3,708	335	1,757	7,848
Isobutane	243	1,861	1,371	61	169	3,705	189	754	6,519
Other Liquids	-8,282	-50,712	-34,429	-1,584	-1,338	-96,345	-4,872	-33,036	-203,040
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	262	2,437	2,123	125	104	5,051	556	1,491	9,247
Hydrogen	23	2,269	1,873	82	42	4,289	225	1,193	7,075
Oxygenates (excluding Fuel Ethanol)	—	95	—	—	—	95	—	—	95
Methyl Tertiary Butyl Ether (MTBE)	—	95	—	—	—	95	—	—	95
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	239	73	250	43	62	667	331	298	2,031
Fuel Ethanol	198	45	154	28	55	480	304	89	1,471
Renewable Diesel Fuel	41	28	96	15	7	187	27	204	555
Other Renewable Fuels	—	—	—	—	—	—	—	5	5
Other Hydrocarbons	—	—	—	—	—	—	—	—	46
Unfinished Oils (net)	-165	-308	8,574	-57	-201	7,843	-184	2,473	12,283
Naphthas and Lighter	84	-5,588	947	-43	-86	-4,686	-24	-482	-3,914
Kerosene and Light Gas Oils	-124	-638	1,517	-46	-88	621	-258	169	30
Heavy Gas Oils	-96	5,582	4,959	66	-27	10,484	214	1,932	14,288
Residuum	-29	336	1,151	-34	—	1,424	-116	854	1,879
Motor Gasoline Blend.Comp. (MGB)(net)	-8,387	-52,841	-45,126	-1,652	-1,241	-109,247	-5,244	-37,000	-224,578
Reformulated - RBOB	-1,185	-14,143	-2,782	—	-552	-18,662	—	-28,697	-67,517
Conventional	-7,202	-38,698	-42,344	-1,652	-689	-90,585	-5,244	-8,303	-157,061
CBOB	-7,000	-32,853	-39,485	-1,629	-728	-81,695	-5,355	-8,302	-147,194
GTAB	—	—	—	—	—	—	—	—	—
Other	-202	-5,845	-2,859	-23	39	-8,890	111	-1	-9,867
Aviation Gasoline Blend. Comp. (net)	8	—	—	—	—	8	—	—	8
Total Input to Refineries	12,457	92,342	76,911	4,775	2,324	188,809	14,374	40,412	327,098
Atmospheric Crude Oil Distillation									
Gross Input (daily average)	638	4,556	3,581	196	112	9,083	602	2,441	16,896
Operable Capacity (daily average)	704	4,853	3,707	243	128	9,634	696	2,924	18,508
Operable Utilization Rate (percent) ²	90.6	93.9	96.6	80.8	88.2	94.3	86.5	83.5	91.3
Downstream Processing									
Fresh Feed Input (daily average)									
Catalytic Reforming	143	643	583	30	20	1,418	98	385	2,719
Catalytic Cracking	167	1,402	1,057	18	32	2,676	161	665	5,026
Catalytic Hydrocracking	45	496	418	20	—	979	17	460	1,805
Delayed and Fluid Coking	23	830	569	8	—	1,430	70	482	2,547
Crude Oil Qualities									
Sulfur Content, Weighted Average (percent)	0.52	1.80	1.47	1.44	0.68	1.56	1.42	1.39	1.50
API Gravity, Weighted Average (degrees)	40.39	30.77	30.04	31.96	37.90	31.30	32.65	27.23	31.14
Operable Capacity (daily average)	704	4,853	3,707	243	128	9,634	696	2,924	18,508
Operating	704	4,853	3,707	243	128	9,634	683	2,840	18,356
Idle	—	—	—	—	—	—	13	85	152
Alaskan Crude Oil Receipts	—	—	—	—	—	—	—	15,493	15,493

— = No Data Reported.

NA = Not Available.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

² Represents gross input divided by operable calendar day capacity.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Liquefied Refinery Gases	52	-33	19	969	-214	-471	284
Ethane/Ethylene	19	-	19	-	-	-	-
Ethane	-	-	-	-	-	-	-
Ethylene	19	-	19	-	-	-	-
Propane/Propylene	1,062	25	1,087	2,461	424	684	3,569
Propane	618	25	643	1,601	243	464	2,308
Propylene	444	-	444	860	181	220	1,261
Normal Butane/Butylene	-869	-37	-906	-1,415	-549	-1,086	-3,050
Normal Butane	-783	-37	-820	-1,398	-549	-1,085	-3,032
Butylene	-86	-	-86	-17	-	-1	-18
Isobutane/Isobutylene	-160	-21	-181	-77	-89	-69	-235
Isobutane	-160	-21	-181	-77	-89	-69	-235
Isobutylene	-	-	-	-	-	-	-
Finished Motor Gasoline	735	1,330	2,065	6,562	2,145	2,537	11,244
Reformulated	735	-	735	-	-	-	-
Reformulated Blended with Fuel Ethanol	735	-	735	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-
Conventional	-	1,330	1,330	6,562	2,145	2,537	11,244
Conventional Blended with Fuel Ethanol	-	1,091	1,091	1,614	1,546	1,068	4,228
Ed55 and Lower	-	1,091	1,091	1,614	1,546	1,068	4,228
Greater than Ed55	-	-	-	-	-	-	-
Conventional Other	-	239	239	4,948	599	1,469	7,016
Finished Aviation Gasoline	-	-	-	-	74	-	74
Kerosene-Type Jet Fuel	2,519	-	2,519	6,136	722	882	7,740
Commercial	2,519	-	2,519	6,136	688	779	7,603
Military	-	-	-	-	34	103	137
Kerosene	147	9	156	231	-	21	252
Distillate Fuel Oil	9,901	779	10,680	19,452	4,933	10,205	34,590
15 ppm sulfur and under	8,031	703	8,734	19,480	4,825	10,135	34,440
Greater than 15 ppm to 500 ppm sulfur	142	64	206	-35	137	-10	92
Greater than 500 ppm sulfur	1,728	12	1,740	7	-29	80	58
Residual Fuel Oil	1,580	8	1,588	1,183	342	94	1,619
Less than 0.31 percent sulfur	402	8	410	-	83	-	83
0.31 to 1.00 percent sulfur	176	-	176	168	73	-	241
Greater than 1.00 percent sulfur	1,002	-	1,002	1,015	186	94	1,295
Petrochemical Feedstocks	103	-	103	853	-15	20	858
Naphtha for Petro. Feed. Use	103	-	103	615	-15	-	600
Other Oils for Petro. Feed. Use	-	-	-	238	-	20	258
Special Naphthas	-	17	17	40	-	14	54
Lubricants	220	182	402	-	-	220	220
Naphthenic	-	-	-	-	-	-	-
Paraffinic	220	182	402	-	-	220	220
Waxes	-	-7	-7	-	-	33	33
Petroleum Coke	1,216	20	1,236	4,404	796	951	6,151
Marketable	505	-	505	3,285	616	754	4,655
Catalyst	711	20	731	1,119	180	197	1,496
Asphalt and Road Oil	393	594	987	2,213	971	237	3,421
Still Gas	1,253	55	1,308	2,757	606	1,097	4,460
Miscellaneous Products	66	34	100	343	111	66	520
Fuel Use	-	-	-	-	-	-	-
Nonfuel Use	66	34	100	343	111	66	520
Total	18,185	2,988	21,173	45,143	10,471	15,906	71,520
Processing Gain(-) or Loss(+) ¹	-1,660	8	-1,652	-4,960	-1,113	-1,465	-7,538

See footnotes at end of table.

Table 31. Refinery Net Production of Finished Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Liquefied Refinery Gases	315	4,760	4,761	-52	-1	9,783	96	-132	10,050
Ethane/Ethylene	1	78	2	—	—	81	—	—	100
Ethane	1	68	2	—	—	71	—	—	71
Ethylene	—	10	—	—	—	10	—	—	29
Propane/Propylene	718	6,289	5,011	30	42	12,090	293	1,389	18,428
Propane	351	2,674	2,104	30	42	5,201	286	1,092	9,530
Propylene	367	3,615	2,907	—	—	6,889	7	297	8,898
Normal Butane/Butylene	-415	-1,270	-363	-82	-46	-2,176	-211	-1,586	-7,929
Normal Butane	-416	-1,189	-544	-82	-46	-2,277	-191	-1,561	-7,881
Butylene	1	-81	181	—	—	101	-20	-25	-48
Isobutane/Isobutylene	11	-337	111	—	3	-212	14	65	-549
Isobutane	11	-323	111	—	3	-198	14	65	-535
Isobutylene	—	-14	—	—	—	-14	—	—	-14
Finished Motor Gasoline	3,554	15,010	9,615	369	707	29,255	4,922	4,243	51,729
Reformulated	—	—	—	—	—	—	—	644	1,379
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	644	1,379
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	3,554	15,010	9,615	369	707	29,255	4,922	3,599	50,350
Conventional Blended with Fuel Ethanol	1,963	444	1,524	294	495	4,720	3,066	255	13,360
Ed55 and Lower	1,959	444	1,524	294	495	4,716	3,066	255	13,356
Greater than Ed55	4	—	—	—	—	4	—	—	4
Conventional Other	1,591	14,566	8,091	75	212	24,535	1,856	3,344	36,990
Finished Aviation Gasoline	77	101	68	—	—	246	5	14	339
Kerosene-Type Jet Fuel	1,281	13,154	11,951	156	—	26,542	959	13,795	51,555
Commercial	1,130	12,163	11,745	68	—	25,106	913	13,078	49,219
Military	151	991	206	88	—	1,436	46	717	2,336
Kerosene	-11	—	15	30	—	34	—	2	444
Distillate Fuel Oil	5,999	43,269	37,719	2,284	1,313	90,584	6,305	16,146	158,305
15 ppm sulfur and under	6,051	41,361	31,099	2,241	1,313	82,065	6,280	15,467	146,986
Greater than 15 ppm to 500 ppm sulfur	-6	513	3,108	5	—	3,620	13	312	4,243
Greater than 500 ppm sulfur	-46	1,395	3,512	38	—	4,899	12	367	7,076
Residual Fuel Oil	208	2,460	3,736	-56	133	6,481	387	2,566	12,641
Less than 0.31 percent sulfur	170	—	895	—	—	1,065	237	—	1,795
0.31 to 1.00 percent sulfur	—	151	326	-56	16	437	11	760	1,625
Greater than 1.00 percent sulfur	38	2,309	2,515	—	117	4,979	139	1,806	9,221
Petrochemical Feedstocks	92	5,671	2,907	20	—	8,690	—	3	9,654
Naphtha for Petro. Feed. Use	70	3,975	1,367	20	—	5,432	—	3	6,138
Other Oils for Petro. Feed. Use	22	1,696	1,540	—	—	3,258	—	—	3,516
Special Naphthas	77	638	—	187	—	902	—	33	1,006
Lubricants	33	1,827	1,584	815	—	4,259	—	49	4,930
Naphthenic	33	54	—	644	—	731	—	77	808
Paraffinic	—	1,773	1,584	171	—	3,528	—	-28	4,122
Waxes	—	31	41	26	—	98	—	—	124
Petroleum Coke	392	9,085	6,512	122	61	16,172	816	4,876	29,251
Marketable	155	7,008	5,133	108	—	12,404	571	3,841	21,976
Catalyst	237	2,077	1,379	14	61	3,768	245	1,035	7,275
Asphalt and Road Oil	235	283	712	849	22	2,101	978	687	8,174
Still Gas	796	5,958	4,455	160	78	11,447	707	3,504	21,426
Miscellaneous Products	50	1,089	666	23	28	1,856	96	432	3,004
Fuel Use	—	—	—	—	—	—	—	74	74
Nonfuel Use	50	1,089	666	23	28	1,856	96	358	2,930
Total	13,098	103,336	84,742	4,933	2,341	208,450	15,271	46,218	362,632
Processing Gain(-) or Loss(+) ¹	-641	-10,994	-7,831	-158	-17	-19,641	-897	-5,806	-35,534

— = No Data Reported.

¹ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 32. Blender Net Inputs of Petroleum Products by PAD District, December 2016
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	851	1	852	143	78	562	783
Pentanes Plus	244	—	244	—	13	110	123
Liquefied Petroleum Gases	607	1	608	143	65	452	660
Normal Butane	607	1	608	143	65	452	660
Isobutane	—	—	—	—	—	—	—
Other Liquids	90,452	6,412	96,864	45,612	9,286	13,653	68,551
Oxygenates/Renewables	9,797	674	10,471	4,921	1,060	1,542	7,523
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,797	674	10,471	4,921	1,060	1,542	7,523
Fuel Ethanol	9,453	630	10,083	4,747	1,026	1,477	7,250
Renewable Diesel Fuel	344	44	388	174	34	65	273
Other Renewable Fuels	—	—	—	—	—	—	—
Unfinished Oils (net)	-6	-2	-8	38	—	—	38
Naphthas and Lighter	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	-2	-2	-66	—	—	-66
Heavy Gas Oils	-6	—	-6	1	—	—	1
Residium	—	—	—	103	—	—	103
Motor Gasoline Blend.Comp. (MGBC)(net)	80,661	5,740	86,401	40,653	8,226	12,111	60,990
Reformulated - RBOB	28,639	—	28,639	7,731	1,395	958	10,084
Conventional	52,022	5,740	57,762	32,922	6,831	11,153	50,906
CBOB	44,785	5,740	50,525	31,805	6,776	11,153	49,734
GTAB	1,450	—	1,450	—	—	—	—
Other	5,787	—	5,787	1,117	55	—	1,172
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—
Total Input	91,303	6,413	97,716	45,755	9,364	14,215	69,334

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Natural Gas Plant Liquids and Liquefied									
Refinery Gases	59	411	252	34	—	756	123	14	2,528
Pentanes Plus	18	28	—	—	—	46	37	—	450
Liquefied Petroleum Gases	41	383	252	34	—	710	86	14	2,078
Normal Butane	41	383	252	34	—	710	86	14	2,078
Isobutane	—	—	—	—	—	—	—	—	—
Other Liquids	17,060	12,326	2,637	9,056	1,035	42,114	4,415	45,450	257,394
Oxygenates/Renewables	1,805	831	387	1,027	130	4,180	622	5,074	27,870
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	1,805	831	387	1,027	130	4,180	622	5,074	27,870
Fuel Ethanol	1,761	771	300	998	104	3,934	613	4,692	26,572
Renewable Diesel Fuel	44	60	87	29	26	246	9	382	1,298
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Unfinished Oils (net)	—	—	-175	—	—	-175	—	—	-145
Naphthas and Lighter	—	—	—	—	—	—	—	—	—
Kerosene and Light Gas Oils	—	—	3	—	—	3	—	—	-65
Heavy Gas Oils	—	—	-178	—	—	-178	—	—	-183
Residium	—	—	—	—	—	—	—	—	103
Motor Gasoline Blend.Comp. (MGBC)(net)	15,255	11,495	2,425	8,029	905	38,109	3,793	40,376	229,669
Reformulated - RBOB	6,615	4,816	—	—	—	11,431	—	30,085	80,239
Conventional	8,640	6,679	2,425	8,029	905	26,678	3,793	10,291	149,430
CBOB	8,640	-911	1,528	8,006	905	18,168	3,788	10,291	132,506
GTAB	—	—	—	—	—	—	—	—	1,450
Other	—	7,590	897	23	—	8,510	5	—	15,474
Aviation Gasoline Blend. Comp. (net)	—	—	—	—	—	—	—	—	—
Total Input	17,119	12,737	2,889	9,090	1,035	42,870	4,538	45,464	259,922

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 33. Blender Net Production of Petroleum Products by PAD District, December 2016
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Finished Motor Gasoline	90,966	6,368	97,334	45,516	9,333	14,147	68,996
Reformulated	39,701	—	39,701	8,866	1,588	1,077	11,531
Reformulated Blended with Fuel Ethanol	39,701	—	39,701	8,866	1,588	1,077	11,531
Reformulated Other	—	—	—	—	—	—	—
Conventional	51,265	6,368	57,633	36,650	7,745	13,070	57,465
Conventional Blended with Fuel Ethanol	54,057	6,365	60,422	38,016	8,617	13,407	60,040
Ed55 and Lower	54,023	6,365	60,388	38,007	8,597	13,360	59,964
Greater than Ed55	34	—	34	9	20	47	76
Conventional Other	-2,792	3	-2,789	-1,366	-872	-337	-2,575
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	48	—	48	-329	—	—	-329
Kerosene	15	—	15	—	—	—	—
Distillate Fuel Oil	307	43	350	453	31	63	547
15 ppm sulfur and under	-97	43	-54	453	31	63	547
Greater than 15 ppm to 500 ppm sulfur	114	0	114	—	—	94	94
Greater than 500 ppm sulfur	290	—	290	—	—	-94	-94
Residual Fuel Oil	-33	—	-33	—	—	-33	-33
Less than 0.31 percent sulfur	-51	—	-51	—	—	—	—
0.31 to 1.00 percent sulfur	4	—	4	—	—	—	—
Greater than 1.00 percent sulfur	14	—	14	—	—	-33	-33
Special Naphthas	—	—	—	—	—	—	—
Lubricants	—	—	—	—	—	—	—
Asphalt and Road Oil	1	—	1	104	—	33	137
Miscellaneous Products	—	—	—	—	—	—	—
Total Production	91,304	6,411	97,715	45,744	9,364	14,210	69,318
Processing Gain(-) or Loss(+) ¹	-1	2	1	11	0	5	16

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Finished Motor Gasoline	17,074	12,677	2,976	9,060	1,010	42,797	4,527	45,089	258,743
Reformulated	7,398	6,358	—	—	—	13,756	—	33,454	98,442
Reformulated Blended with Fuel Ethanol	7,398	6,358	—	—	—	13,756	—	33,454	98,442
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	9,676	6,319	2,976	9,060	1,010	29,041	4,527	11,635	160,301
Conventional Blended with Fuel Ethanol	9,938	1,243	2,987	9,857	1,048	25,073	6,071	13,204	164,810
Ed55 and Lower	9,934	1,243	2,987	9,845	1,048	25,057	6,062	13,201	164,672
Greater than Ed55	4	—	—	12	—	16	9	3	138
Conventional Other	-262	5,076	-11	-797	-38	3,968	-1,544	-1,569	-4,509
Finished Aviation Gasoline	—	—	—	—	—	—	—	-1	-1
Kerosene-Type Jet Fuel	—	-14	7	—	—	-7	40	-86	-334
Kerosene	—	-42	1	—	—	-41	—	27	1
Distillate Fuel Oil	45	116	51	30	26	268	-31	440	1,574
15 ppm sulfur and under	45	55	53	30	26	209	-31	416	1,087
Greater than 15 ppm to 500 ppm sulfur	—	3	-2	—	—	1	—	—	209
Greater than 500 ppm sulfur	—	58	—	—	—	58	—	24	278
Residual Fuel Oil	—	0	-147	—	—	-147	—	—	-213
Less than 0.31 percent sulfur	—	11	—	—	—	11	—	—	-40
0.31 to 1.00 percent sulfur	—	31	—	—	—	31	—	—	35
Greater than 1.00 percent sulfur	—	-42	-147	—	—	-189	—	—	-208
Special Naphthas	—	—	—	—	—	—	—	—	—
Lubricants	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	—	—	—	—	—	—	—	—	138
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total Production	17,119	12,737	2,888	9,090	1,036	42,870	4,536	45,469	259,908
Processing Gain(-) or Loss(+) ¹	0	0	1	0	-1	0	2	-5	14

— = No Data Reported.

¹ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Refer to Appendix A for Refining District descriptions.

Sources: Energy Information Administration (EIA) Form EIA-815, "Monthly Bulk Terminal and Blender Report."

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels)

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Crude Oil	8,065	782	8,847	9,722	2,339	1,811	13,872
Petroleum Products	13,823	2,156	15,979	30,046	7,410	10,985	48,441
Pentanes Plus	—	—	—	26	—	276	302
Liquefied Petroleum Gases	814	30	844	3,236	580	778	4,594
Ethane/Ethylene	—	—	—	—	—	—	—
Propane/Propylene	301	2	303	1,272	59	429	1,760
Normal Butane/Butylene	390	19	409	1,708	471	114	2,293
Isobutane/Isobutylene	123	9	132	256	50	235	541
Oxygenates/Renewable Fuels/Other Hydrocarbons	85	107	192	61	52	33	146
Oxygenates (excluding Fuel Ethanol)	—	—	—	—	—	—	—
Methyl Tertiary Butyl Ether (MTBE)	—	—	—	—	—	—	—
All Other Oxygenates ¹	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	85	107	192	44	52	33	129
Fuel Ethanol	85	102	187	28	38	28	94
Renewable Diesel Fuel	—	5	5	16	14	5	35
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	17	—	—	17
Unfinished Oils	3,978	406	4,384	8,188	591	3,980	12,759
Naphthas and Lighter	994	258	1,252	1,954	91	931	2,976
Kerosene and Light Gas Oils	754	—	754	1,908	274	645	2,827
Heavy Gas Oils	1,636	131	1,767	2,900	226	1,537	4,663
Residuum	594	17	611	1,426	—	867	2,293
Motor Gasoline Blending Components (MGBC)	4,693	287	4,980	8,264	1,918	2,790	12,972
Reformulated - RBOB	1,695	—	1,695	1,062	138	—	1,200
Conventional	2,998	287	3,285	7,202	1,780	2,790	11,772
CBOB	392	239	631	2,889	1,110	1,853	5,852
GTAB	—	—	—	—	—	—	—
Other	2,606	48	2,654	4,313	670	937	5,920
Aviation Gasoline Blending Components	—	—	—	—	—	—	—
Finished Motor Gasoline	—	31	31	1,311	172	225	1,708
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	—	31	31	1,311	172	225	1,708
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	—	31	31	1,311	172	225	1,708
Finished Aviation Gasoline	—	—	—	—	92	—	92
Kerosene-Type Jet Fuel	376	—	376	1,237	315	170	1,722
Kerosene	111	6	117	148	—	25	173
Distillate Fuel Oil	2,152	222	2,374	3,548	1,662	1,672	6,882
15 ppm sulfur and under	1,476	102	1,578	3,380	1,036	1,495	5,911
Greater than 15 ppm to 500 ppm sulfur	28	101	129	—	164	59	223
Greater than 500 ppm sulfur	648	19	667	168	462	118	748
Residual Fuel Oil	671	18	689	993	201	41	1,235
Less than 0.31 percent sulfur	150	16	166	—	26	—	26
0.31 to 1.00 percent sulfur	78	2	80	128	29	—	157
Greater than 1.00 percent sulfur	443	—	443	865	146	41	1,052
Petrochemical Feedstocks	159	—	159	467	66	—	533
Naphtha for Petro. Feed. Use	159	—	159	325	66	—	391
Other Oils for Petro. Feed. Use	—	—	—	142	—	—	142
Special Naphthas	—	10	10	66	—	19	85
Lubricants	332	305	637	—	—	264	264
Waxes	—	377	377	—	—	44	44
Petroleum Coke	—	—	—	331	687	60	1,078
Marketable	—	—	—	331	687	60	1,078
Catalyst	—	—	—	—	—	—	—
Asphalt and Road Oil	437	335	772	2,076	1,051	602	3,729
Miscellaneous Products	15	22	37	94	23	6	123
Total Stocks, All Oils	21,888	2,938	24,826	39,768	9,749	12,796	62,313

See footnotes at end of table.

Table 34. Refinery Stocks of Crude Oil and Petroleum Products by PAD and Refining Districts, December 2016
(Thousand Barrels) — Continued

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Crude Oil	1,520	23,133	16,284	1,106	275	42,318	2,605	25,114	92,756
Petroleum Products	9,682	56,467	51,326	4,042	1,567	123,084	10,937	47,861	246,302
Pentanes Plus	140	53	359	—	63	615	12	2	931
Liquefied Petroleum Gases	2,055	1,094	5,712	16	37	8,914	379	1,374	16,105
Ethane/Ethylene	118	—	—	—	—	118	—	—	118
Propane/Propylene	992	68	1,177	3	3	2,243	32	103	4,441
Normal Butane/Butylene	801	799	3,509	8	17	5,134	247	826	8,909
Isobutane/Isobutylene	144	227	1,026	5	17	1,419	100	445	2,637
Oxygenates/Renewable Fuels/Other Hydrocarbons	48	143	133	101	13	438	123	362	1,261
Oxygenates (excluding Fuel Ethanol)	—	81	—	—	—	81	—	—	81
Methyl Tertiary Butyl Ether (MTBE)	—	81	—	—	—	81	—	—	81
All Other Oxygenates ¹	—	—	—	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	48	62	133	101	13	357	123	362	1,163
Fuel Ethanol	41	28	54	35	12	170	114	31	596
Renewable Diesel Fuel	7	34	79	66	1	187	9	293	529
Other Renewable Fuels	—	—	—	—	—	—	—	38	38
Other Hydrocarbons	—	—	—	—	—	—	—	—	17
Unfinished Oils	2,412	19,755	14,099	875	764	37,905	2,829	18,182	76,059
Naphthas and Lighter	892	6,332	2,391	270	272	10,157	530	3,180	18,095
Kerosene and Light Gas Oils	560	3,570	2,334	156	276	6,896	546	3,100	14,123
Heavy Gas Oils	477	7,963	7,148	391	216	16,195	1,312	9,323	33,260
Residuum	483	1,890	2,226	58	—	4,657	441	2,579	10,581
Motor Gasoline Blending Components (MGBC)	2,380	11,575	12,772	328	296	27,351	3,213	12,962	61,478
Reformulated - RBOB	235	1,111	261	—	—	1,607	—	5,158	9,660
Conventional	2,145	10,464	12,511	328	296	25,744	3,213	7,804	51,818
CBOB	1,073	3,412	6,799	208	98	11,590	1,390	1,947	21,410
GTAB	—	—	—	—	—	—	—	—	—
Other	1,072	7,052	5,712	120	198	14,154	1,823	5,857	30,408
Aviation Gasoline Blending Components	9	—	—	—	—	9	—	—	9
Finished Motor Gasoline	623	2,429	1,700	14	70	4,836	1,060	700	8,335
Reformulated	—	—	—	—	—	—	—	16	16
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	16	16
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	623	2,429	1,700	14	70	4,836	1,060	684	8,319
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	45	—	45
Ed55 and Lower	—	—	—	—	—	—	45	—	45
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	623	2,429	1,700	14	70	4,836	1,015	684	8,274
Finished Aviation Gasoline	40	125	188	—	—	353	9	111	565
Kerosene-Type Jet Fuel	370	2,978	2,550	73	—	5,971	267	3,751	12,087
Kerosene	28	7	63	6	—	104	1	6	401
Distillate Fuel Oil	773	7,012	7,018	448	114	15,365	1,987	5,239	31,847
15 ppm sulfur and under	725	6,424	5,555	382	114	13,200	1,761	4,492	26,942
Greater than 15 ppm to 500 ppm sulfur	19	70	543	15	—	647	172	237	1,408
Greater than 500 ppm sulfur	29	518	920	51	—	1,518	54	510	3,497
Residual Fuel Oil	87	2,082	1,564	24	82	3,839	224	2,654	8,641
Less than 0.31 percent sulfur	6	—	191	—	—	197	34	—	423
0.31 to 1.00 percent sulfur	—	144	68	24	5	241	4	536	1,018
Greater than 1.00 percent sulfur	81	1,938	1,305	—	77	3,401	186	2,118	7,200
Petrochemical Feedstocks	143	1,763	631	10	—	2,547	—	1	3,240
Naphtha for Petro. Feed. Use	25	965	460	10	—	1,460	—	1	2,011
Other Oils for Petro. Feed. Use	118	798	171	—	—	1,087	—	—	1,229
Special Naphthas	69	687	—	81	—	837	—	29	961
Lubricants	55	2,867	2,567	915	—	6,404	—	402	7,707
Waxes	—	58	126	66	—	250	—	—	671
Petroleum Coke	10	3,374	1,164	—	—	4,548	144	1,213	6,983
Marketable	10	3,374	1,164	—	—	4,548	144	1,213	6,983
Catalyst	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	423	225	545	1,084	103	2,380	672	796	8,349
Miscellaneous Products	17	240	135	1	25	418	17	77	672
Total Stocks, All Oils	11,202	79,600	67,610	5,148	1,842	165,402	13,542	72,975	339,058

— = No Data Reported.

¹ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Refer to Appendix A for Refining District descriptions.

Source: Energy Information Administration (EIA) Form EIA-810, "Monthly Refinery Report."

Table 35. Percent Yield of Petroleum Products by PAD and Refining Districts, December 2016

Commodity	PAD District 1 - East Coast			PAD District 2 - Midwest			
	East Coast	Appalachian No. 1	Total	Indiana, Illinois, Kentucky	Minnesota, Wisconsin, North and South Dakota	Oklahoma, Kansas, Missouri	Total
Liquefied Refinery Gases	0.2	-1.2	0.1	1.3	-1.4	-1.8	0.2
Finished Motor Gasoline ¹	51.1	42.7	50.4	55.1	52.9	55.3	54.8
Finished Aviation Gasoline ²	—	—	—	—	0.5	—	0.1
Kerosene-Type Jet Fuel	7.8	—	7.2	8.2	4.7	3.3	6.6
Kerosene	0.5	0.3	0.4	0.3	—	0.1	0.2
Distillate Fuel Oil ³	30.7	26.4	30.3	25.9	32.2	38.4	29.6
Residual Fuel Oil	4.9	0.3	4.5	1.6	2.2	0.4	1.4
Naphtha for Petro. Feed. Use	0.3	—	0.3	0.8	0.0	—	0.5
Other Oils for Petro. Feed. Use	—	—	—	0.3	—	0.1	0.2
Special Naphthas	—	0.6	0.1	0.1	—	0.1	0.1
Lubricants	0.7	6.3	1.1	—	—	0.8	0.2
Waxes	—	-0.2	0.0	—	—	0.1	0.0
Petroleum Coke	3.8	0.7	3.5	5.9	5.2	3.6	5.3
Asphalt and Road Oil	1.2	20.7	2.8	3.0	6.4	0.9	2.9
Still Gas	3.9	1.9	3.7	3.7	4.0	4.1	3.8
Miscellaneous Products	0.2	1.2	0.3	0.5	0.7	0.3	0.5
Processing Gain(-) or Loss(+) ⁴	-5.2	0.4	-4.7	-6.6	-7.3	-5.5	-6.5

Commodity	PAD District 3 - Gulf Coast						PAD District 4 - Rocky Mountain	PAD District 5 - West Coast	U.S. Total
	Texas Inland	Texas Gulf Coast	Louisiana Gulf Coast	North Louisiana, Arkansas	New Mexico	Total			
Liquefied Refinery Gases	1.6	3.4	4.1	-0.8	0.0	3.4	0.5	-0.2	1.9
Finished Motor Gasoline ¹	55.4	44.9	42.8	30.4	51.6	44.5	49.6	51.2	48.3
Finished Aviation Gasoline ²	0.4	0.1	0.1	—	—	0.1	0.0	0.0	0.1
Kerosene-Type Jet Fuel	6.5	9.4	10.2	2.5	—	9.2	5.1	18.7	9.7
Kerosene	-0.1	—	0.0	0.5	—	0.0	—	0.0	0.1
Distillate Fuel Oil ³	30.0	30.8	32.0	36.0	39.3	31.5	33.6	21.6	29.7
Residual Fuel Oil	1.1	1.8	3.2	-0.9	4.0	2.3	2.1	3.5	2.4
Naphtha for Petro. Feed. Use	0.4	2.8	1.2	0.3	—	1.9	—	0.0	1.2
Other Oils for Petro. Feed. Use	0.1	1.2	1.3	—	—	1.1	—	—	0.7
Special Naphthas	0.4	0.5	—	3.0	—	0.3	—	0.0	0.2
Lubricants	0.2	1.3	1.4	12.9	—	1.5	—	0.1	0.9
Waxes	—	0.0	0.0	0.4	—	0.0	—	—	0.0
Petroleum Coke	2.0	6.5	5.5	1.9	1.8	5.6	4.4	6.6	5.5
Asphalt and Road Oil	1.2	0.2	0.6	13.5	0.7	0.7	5.2	0.9	1.5
Still Gas	4.0	4.3	3.8	2.5	2.4	4.0	3.8	4.8	4.0
Miscellaneous Products	0.3	0.8	0.6	0.0	1.0	0.7	0.5	0.6	0.6
Processing Gain(-) or Loss(+) ⁴	-3.2	-7.8	-6.7	-2.5	-0.5	-6.8	-4.8	-7.9	-6.7

— = No Data Reported.

¹ Based on net production of finished motor gasoline minus input of natural gas plant liquids, fuel ethanol, oxygenates, and net input of motor gasoline blending components.

² Based on finished aviation gasoline net production minus net input of aviation gasoline blending components.

³ Based on distillate fuel oil net production minus input of biodiesel, "other" renewable diesel fuels, and "other" renewable fuels.

⁴ Represents the arithmetic difference between refinery input and production divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Percent yield is calculated as net production (or adjusted net production) divided by input of crude oil, hydrogen, "other" hydrocarbons, and net input of unfinished oils.

Note: Totals may not equal sum of components due to independent rounding.

Note: Refer to Appendix A for Refining District descriptions.

Source: Calculated from data on Tables 30 and 31.

Table 36. Imports of Residual Fuel Oil by Sulfur Content and by PAD District and State of Entry, December 2016
(Thousand Barrels)

PAD District and State of Entry	Residual Fuel Oil			
	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
PAD District 1	—	1	2,265	2,266
Connecticut	—	—	—	—
Delaware	—	—	—	—
Florida	—	—	976	976
Georgia	—	—	240	240
Maine	—	—	—	—
Maryland	—	—	—	—
Massachusetts	—	—	—	—
New Hampshire	—	—	—	—
New Jersey	—	—	947	947
New York	—	—	—	—
North Carolina	—	—	—	—
Pennsylvania	—	—	—	—
Rhode Island	—	—	—	—
South Carolina	—	—	100	100
Vermont	—	1	2	3
Virginia	—	—	—	—
West Virginia	—	—	—	—
PAD District 2	—	85	71	156
Illinois	—	—	—	—
Indiana	—	—	—	—
Michigan	—	—	71	71
Minnesota	—	85	—	85
North Dakota	—	—	—	—
Ohio	—	—	—	—
Wisconsin	—	—	—	—
PAD District 3	199	—	1,214	1,413
Alabama	—	—	—	—
Louisiana	—	—	—	—
Mississippi	—	—	—	—
New Mexico	—	—	—	—
Texas	199	—	1,214	1,413
PAD District 4	—	—	—	—
Idaho	—	—	—	—
Montana	—	—	—	—
PAD District 5	—	325	1,907	2,232
Alaska	—	—	—	—
California	—	—	1,573	1,573
Hawaii	—	—	—	—
Oregon	—	—	—	—
Washington	—	325	334	659
U.S. Total	199	411	5,457	6,067

— = No Data Reported.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 37. Imports of Crude Oil and Petroleum Products by PAD District, December 2016
(Thousand Barrels, Except Where Noted)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	26,479	74,836	101,418	7,537	33,394	243,664	7,860
Natural Gas Plant Liquids and Liquefied Refinery Gases	1,785	3,063	36	371	1,109	6,364	205
Pentanes Plus	—	4	—	—	—	4	0
Liquefied Petroleum Gases	1,785	3,059	36	371	1,109	6,360	205
Ethane	—	—	—	—	—	—	—
Ethylene	—	—	—	—	—	—	—
Propane	1,406	2,066	—	370	891	4,733	153
Propylene	228	381	—	—	—	609	20
Normal Butane	61	367	—	—	192	620	20
Butylene	—	91	36	—	—	127	4
Isobutane	90	154	—	1	26	271	9
Isobutylene	—	—	—	—	—	—	—
Other Liquids	17,518	338	13,122	12	3,057	34,047	1,098
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	1,427	12	1,275	8	799	3,521	114
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	291	—	—	291	9
Methyl Tertiary Butyl Ether (MTBE)	—	—	221	—	—	221	7
Other Oxygenates ³	—	—	70	—	—	70	2
Renewable Fuels (including Fuel Ethanol)	1,427	12	979	8	799	3,225	104
Fuel Ethanol	—	—	—	—	—	—	—
Biomass-Based Diesel Fuel	1,427	12	979	8	242	2,668	86
Other Renewable Diesel Fuel	—	—	—	—	557	557	18
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	5	—	—	5	0
Unfinished Oils ¹	1,096	—	10,880	—	1,900	13,876	448
Naphthas and Lighter	415	—	371	—	—	786	25
Kerosene and Lighter Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	681	—	7,567	—	1,900	10,148	327
Residuum	—	—	2,942	—	—	2,942	95
Motor Gasoline Blend.Comp. (MGBC)	14,995	326	967	4	358	16,650	537
Reformulated - RBOB	6,681	—	—	—	—	6,681	216
Conventional	8,314	326	967	4	358	9,969	322
CBOB	784	—	—	—	342	1,126	36
GTAB	1,346	—	—	—	—	1,346	43
Other	6,184	326	967	4	16	7,497	242
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	10,783	854	3,421	88	5,027	20,173	651
Finished Motor Gasoline	868	—	—	—	28	896	29
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	868	—	—	—	28	896	29
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	868	—	—	—	28	896	29
Finished Aviation Gasoline	1	—	28	—	—	29	1
Kerosene-Type Jet Fuel	1,501	—	—	5	2,528	4,034	130
Bonded Aircraft Fuel	181	—	—	—	230	411	13
Other	1,320	—	—	5	2,298	3,623	117
Kerosene	224	—	—	—	—	224	7
Distillate Fuel Oil	4,816	68	168	9	117	5,178	167
15 ppm sulfur and under	3,671	68	—	9	116	3,864	125
Bonded	—	—	—	—	—	—	—
Other	3,671	68	—	9	116	3,864	125
Greater than 15 ppm to 500 ppm sulfur	44	—	—	—	—	44	1
Bonded	—	—	—	—	—	—	—
Other	44	—	—	—	—	44	1
Greater than 500 ppm to 2000 ppm sulfur	1,101	—	150	—	1	1,252	40
Bonded	—	—	—	—	—	—	—
Other	1,101	—	150	—	1	1,252	40
Greater than 2000 ppm	—	—	18	—	—	18	1
Bonded	—	—	—	—	—	—	—
Other	—	—	18	—	—	18	1
Residual Fuel Oil	2,266	156	1,413	—	2,232	6,067	196
Less than 0.31 percent sulfur	—	—	199	—	—	199	6
0.31 to 1.00 percent sulfur	1	85	—	—	325	411	13
Greater than 1.00 percent sulfur	2,265	71	1,214	—	1,907	5,457	176
Petrochemical Feedstocks	—	136	712	—	—	848	27
Naphtha for Petro. Feed. Use	—	102	707	—	—	809	26
Other Oils for Petro. Feed. Use	—	34	5	—	—	39	1
Special Naphthas	—	46	254	—	—	300	10
Lubricants	180	202	682	—	5	1,069	34
Waxes	115	12	51	—	7	185	6
Petroleum Coke (Marketable)	158	7	113	—	33	311	10
Asphalt and Road Oil	654	227	—	73	77	1,031	33
Miscellaneous Products	—	—	—	1	—	1	0
Total	56,565	79,091	117,997	8,008	42,587	304,248	9,814

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 38. Year-to-Date Imports of Crude Oil and Petroleum Products by PAD District, January-December 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil^{1,2}	322,568	807,662	1,228,297	98,672	425,918	2,883,117	7,877
Natural Gas Plant Liquids and Liquefied Refinery Gases	16,111	29,668	3,165	3,736	6,854	59,534	163
Pentanes Plus	—	330	2,878	—	—	3,208	9
Liquefied Petroleum Gases	16,111	29,338	287	3,736	6,854	56,326	154
Ethane	43	—	—	—	—	43	0
Ethylene	—	—	—	—	—	—	—
Propane	10,766	19,112	—	3,549	6,047	39,474	108
Propylene	3,723	4,580	—	—	38	8,341	23
Normal Butane	546	2,420	—	6	700	3,672	10
Butylene	—	894	287	—	—	1,181	3
Isobutane	1,033	2,332	—	181	69	3,615	10
Isobutylene	—	—	—	—	—	—	—
Other Liquids	232,737	3,071	194,631	844	45,688	476,971	1,303
Hydrogen/Oxygenates/Renewables/Other Hydrocarbons	8,968	715	10,461	200	6,554	26,898	73
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	—	—	3,981	—	—	3,981	11
Methyl Tertiary Butyl Ether (MTBE)	—	—	3,077	—	—	3,077	8
Other Oxygenates ³	—	—	904	—	—	904	2
Renewable Fuels (including Fuel Ethanol)	8,962	611	6,390	146	6,554	22,663	62
Fuel Ethanol	12	—	94	—	756	862	2
Biomass-Based Diesel Fuel	8,406	611	6,296	146	1,038	16,497	45
Other Renewable Diesel Fuel	544	—	—	—	4,760	5,304	14
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	6	104	90	54	—	254	1
Unfinished Oils ¹	14,401	—	167,704	—	29,201	211,306	577
Naphthas and Lighter	1,468	—	1,106	—	1,107	3,681	10
Kerosene and Lighter Gas Oils	—	—	—	—	—	—	—
Heavy Gas Oils	9,044	—	116,646	—	27,889	153,579	420
Residuum	3,889	—	49,952	—	205	54,046	148
Motor Gasoline Blend.Comp. (MGBC)	209,368	2,356	16,466	644	9,933	238,767	652
Reformulated - RBOB	68,476	—	638	—	727	69,841	191
Conventional	140,892	2,356	15,828	644	9,206	168,926	462
CBOB	11,298	278	219	—	4,632	16,427	45
GTAB	42,388	—	584	—	—	42,972	117
Other	87,206	2,078	15,025	644	4,574	109,527	299
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	127,911	9,895	56,026	620	67,321	261,773	715
Finished Motor Gasoline	19,749	65	808	—	1,022	21,644	59
Reformulated	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—
Conventional	19,749	65	808	—	1,022	21,644	59
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—
Conventional Other	19,749	65	808	—	1,022	21,644	59
Finished Aviation Gasoline	11	2	28	8	61	110	0
Kerosene-Type Jet Fuel	20,585	5	—	19	33,171	53,780	147
Bonded Aircraft Fuel	2,091	—	—	—	9,020	11,111	30
Other	18,494	5	—	19	24,151	42,669	117
Kerosene	854	1	—	—	—	855	2
Distillate Fuel Oil	44,133	789	3,757	58	5,020	53,757	147
15 ppm sulfur and under	30,611	504	216	58	4,749	36,138	99
Bonded	—	—	—	—	44	44	0
Other	30,611	504	216	58	4,705	36,094	99
Greater than 15 ppm to 500 ppm sulfur	1,271	—	313	—	54	1,638	4
Bonded	—	—	—	—	—	—	—
Other	1,271	—	313	—	54	1,638	4
Greater than 500 ppm to 2000 ppm sulfur	11,469	163	2,722	—	217	14,571	40
Bonded	—	—	—	—	—	—	—
Other	11,469	163	2,722	—	217	14,571	40
Greater than 2000 ppm	782	122	506	—	—	1,410	4
Bonded	—	—	—	—	—	—	—
Other	782	122	506	—	—	1,410	4
Residual Fuel Oil	28,501	1,264	26,846	—	25,557	82,168	225
Less than 0.31 percent sulfur	1,834	—	2,134	—	—	3,968	11
0.31 to 1.00 percent sulfur	3,379	758	4,426	—	919	9,482	26
Greater than 1.00 percent sulfur	23,288	506	20,286	—	24,638	68,718	188
Petrochemical Feedstocks	36	1,751	9,329	—	336	11,452	31
Naphtha for Petro. Feed. Use	23	1,011	8,231	—	336	9,601	26
Other Oils for Petro. Feed. Use	13	740	1,098	—	—	1,851	5
Special Naphthas	—	566	4,497	—	—	5,063	14
Lubricants	2,288	2,523	9,177	—	197	14,185	39
Waxes	942	70	306	—	497	1,815	5
Petroleum Coke (Marketable)	1,862	188	1,176	—	346	3,572	10
Asphalt and Road Oil	8,950	2,671	102	521	1,114	13,358	36
Miscellaneous Products	—	—	—	14	—	14	0
Total	699,327	850,296	1,482,119	103,872	545,781	3,681,395	10,058

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by the PAD District in which they are to be processed; all other products are reported by the PAD District of entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	102,150	—	—	3,089	—	—	—	—	1,062	1,062
Algeria	3,480	—	—	2,797	—	—	—	—	—	—
Angola	3,160	—	—	—	—	—	—	—	—	—
Ecuador	7,331	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	65	—	—	—	—	—	—
Indonesia	1	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	18,379	—	—	—	—	—	—	—	—	—
Kuwait	7,883	—	—	—	—	—	—	—	—	—
Libya	989	—	—	—	—	—	—	—	—	—
Nigeria	6,810	—	—	227	—	—	—	—	579	579
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	31,439	—	—	—	—	—	—	—	—	—
United Arab Emirates	428	—	—	—	—	—	—	—	—	—
Venezuela	22,250	—	—	—	—	—	—	—	483	483
Non-OPEC	141,514	4	6,360	10,787	—	896	896	6,681	8,907	15,588
Argentina	187	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	626	—	—	—	—	326	326
Brazil	3,468	—	—	—	—	—	—	—	301	301
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	106,564	4	6,259	85	—	288	288	3,535	2,408	5,943
Chad	951	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	11,432	—	—	—	—	—	—	—	415	415
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	215	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	26	—	—	—	—	326	326
France	—	—	—	—	—	—	—	860	—	860
Germany	—	—	—	48	—	—	—	15	—	15
Guatemala	277	—	—	—	—	—	—	—	—	—
India	—	—	—	1,033	—	—	—	—	319	319
Italy	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	15,952	—	36	125	—	—	—	—	175	175
Netherlands	—	—	—	225	—	37	37	542	815	1,357
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	331	331
Oman	417	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	350	350	—	—	—
Russia	743	—	—	7,364	—	195	195	70	1,214	1,284
Spain	—	—	—	—	—	—	—	—	1,163	1,163
Sweden	—	—	—	—	—	—	—	—	60	60
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	727	—	65	348	—	—	—	—	43	43
United Kingdom	796	—	—	155	—	26	26	1,659	910	2,569
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	537	—	0	0	0	101	101
Total	243,664	4	6,360	13,876	—	896	896	6,681	9,969	16,650
Persian Gulf³	58,129	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	68	—	—	—	—	150	—	150
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	68	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	150	—	150
Non-OPEC	221	70	—	2,600	557	—	3,864	44	1,102	18	5,028
Argentina	44	—	—	1,880	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	70	—	—	—	—	—	—	—	—	—	—
Brazil	—	70	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	375	—	—	2,830	44	902	—	3,776
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	200	—	200
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	333	—	—	—	333
France	—	—	—	—	—	—	—	—	—	—	—
Germany	17	—	—	248	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	396	—	—	18	414
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	97	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	90	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	305	—	—	—	305
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	557	—	0	0	0	0	0
Total	221	70	—	2,668	557	—	3,864	44	1,252	18	5,178
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	58	—	—	—	985	985
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	4	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	54	—	—	—	985	985
Non-OPEC	224	29	—	3,976	300	199	411	4,472	5,082
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	23	—	—	55	55
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	1	—	147	46	—	411	885	1,296
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	555	—	—	—	—	—
Colombia	—	—	—	1	—	—	—	415	415
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	28	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	1,173	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	1,494	123	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	2,178	2,178
Netherlands	—	—	—	—	—	—	—	125	125
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	199	—	60	259
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	679	679
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	224	0	—	606	108	0	0	75	75
Total	224	29	—	4,034	300	199	411	5,457	6,067
Persian Gulf³	—	—	—	4	—	—	—	—	—

See footnotes at end of table.

Table 39. Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	125	419	341	—	6,297	108,447	3,295	203	3,498
Algeria	—	—	—	—	—	—	—	2,797	6,277	112	90	202
Angola	—	—	—	—	—	—	—	—	3,160	102	—	102
Ecuador	—	—	—	—	—	—	—	—	7,331	236	—	236
Gabon	—	—	—	—	—	—	—	65	65	—	2	2
Indonesia	—	—	—	—	—	72	—	140	141	0	5	5
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	18,379	593	—	593
Kuwait	—	—	—	—	—	—	—	—	7,883	254	—	254
Libya	—	—	—	—	—	—	—	—	989	32	—	32
Nigeria	—	—	—	—	—	—	—	806	7,616	220	26	246
Qatar	—	—	—	—	—	269	—	269	269	—	9	9
Saudi Arabia	—	—	—	—	—	—	—	4	31,443	1,014	0	1,014
United Arab Emirates	—	—	—	—	—	—	—	—	428	14	—	14
Venezuela	—	—	—	125	419	—	—	2,216	24,466	718	71	789
Non-OPEC	809	39	185	186	612	728	1	54,287	195,801	4,565	1,751	6,316
Argentina	—	—	—	113	—	—	—	2,037	2,224	6	66	72
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	43	—	43	43	—	1	1
Belgium	—	—	—	—	—	2	—	1,024	1,024	—	33	33
Brazil	—	—	1	1	—	—	—	451	3,919	112	15	126
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	102	34	62	38	551	324	1	19,332	125,896	3,438	624	4,061
Chad	—	—	—	—	—	—	—	—	951	31	—	31
China	—	—	57	—	—	—	—	612	612	—	20	20
Colombia	—	—	—	33	—	—	—	864	12,296	369	28	397
Congo (Brazzaville)	—	—	—	—	—	—	—	200	200	—	6	6
Denmark	—	—	—	—	—	—	—	215	215	—	7	7
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	6	—	691	691	—	22	22
France	—	5	—	—	—	18	—	883	883	—	28	28
Germany	—	—	—	—	—	15	—	372	372	—	12	12
Guatemala	—	—	—	—	—	—	—	—	277	9	—	9
India	—	—	—	—	—	—	—	2,939	2,939	—	95	95
Italy	—	—	24	—	—	3	—	28	28	—	1	1
Korea, South	—	—	—	—	—	289	—	2,003	2,003	—	65	65
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	10	—	—	—	—	10	10	—	0	0
Mexico	316	—	—	—	—	—	—	2,830	18,782	515	91	606
Netherlands	14	—	—	—	—	—	—	1,848	1,848	—	60	60
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	331	331	—	11	11
Oman	—	—	—	—	—	—	—	—	417	13	—	13
Portugal	—	—	—	—	—	—	—	655	655	—	21	21
Russia	—	—	—	—	—	—	—	9,102	9,845	24	294	318
Spain	—	—	1	—	—	—	—	1,164	1,164	—	38	38
Sweden	—	—	—	1	—	—	—	61	61	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	1,135	1,862	23	37	60
United Kingdom	186	—	—	—	—	16	—	2,952	3,748	26	95	121
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	191	0	30	0	61	12	0	2,505	2,505	-1	79	80
Total	809	39	185	311	1,031	1,069	1	60,584	304,248	7,860	1,954	9,814
Persian Gulf³	—	—	—	—	—	312	—	316	58,445	1,875	10	1,885

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	1,164,072	—	577	52,795	—	2	2	5	15,761	15,766
Algeria	18,515	—	577	44,650	—	—	—	—	515	515
Angola	58,133	—	—	3,036	—	—	—	—	323	323
Ecuador	86,859	—	—	—	—	—	—	—	521	521
Gabon	439	—	—	—	—	—	—	—	—	—
Indonesia	12,313	—	—	—	—	—	—	—	255	255
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	153,131	—	—	921	—	—	—	—	—	—
Kuwait	76,459	—	—	—	—	—	—	—	—	—
Libya	4,251	—	—	1,277	—	—	—	—	—	—
Nigeria	76,855	—	—	443	—	2	2	—	8,687	8,687
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	401,600	—	—	1,351	—	—	—	—	—	—
United Arab Emirates	4,151	—	—	531	—	—	—	—	—	—
Venezuela	271,366	—	—	521	—	—	—	5	5,460	5,465
Non-OPEC	1,719,045	3,208	55,749	158,511	—	21,642	21,642	69,836	153,165	223,001
Argentina	4,441	—	170	166	—	—	—	—	219	219
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	1,473	—	127	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	20	20
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	14,997	—	1,288	1,288	479	4,530	5,009
Brazil	52,936	—	—	296	—	323	323	—	3,030	3,030
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	647	—	—	—	—	—	—
Canada	1,191,578	330	54,012	1,381	—	11,354	11,354	32,544	21,837	54,381
Chad	23,390	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	96	96	—	571	571
Colombia	161,919	—	—	1,284	—	—	—	—	5,486	5,486
Congo (Brazzaville)	1,147	—	—	45	—	—	—	—	56	56
Denmark	627	—	—	325	—	4	4	110	77	187
Egypt	3,833	—	—	332	—	—	—	—	435	435
Equatorial Guinea	2,250	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	216	—	207	207	227	7,255	7,482
France	—	—	—	4,487	—	332	332	7,213	1,211	8,424
Germany	—	—	—	831	—	—	—	169	32	201
Guatemala	2,711	—	—	—	—	—	—	—	—	—
India	—	—	—	2,795	—	23	23	474	19,924	20,398
Italy	—	—	45	2,268	—	299	299	151	2,931	3,082
Korea, South	—	—	119	789	—	236	236	—	1,504	1,504
Latvia	—	—	—	—	—	—	—	—	417	417
Lithuania	—	—	—	—	—	20	20	—	614	614
Malaysia	1,657	—	—	2,676	—	—	—	—	341	341
Mexico	213,079	1,960	199	687	—	—	—	—	5,099	5,099
Netherlands	314	—	43	2,896	—	1,729	1,729	5,777	6,402	12,179
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	12,937	—	43	3,532	—	365	365	173	9,999	10,172
Oman	10,950	—	—	—	—	—	—	—	36	36
Portugal	—	—	—	—	—	1,452	1,452	2,669	4,591	7,260
Russia	13,972	—	—	105,930	—	196	196	675	17,078	17,753
Spain	—	—	—	690	—	869	869	—	15,429	15,429
Sweden	—	—	668	1,121	—	308	308	98	605	703
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	3,292	—	143	348	—	457	457	—	1,718	1,718
United Kingdom	7,070	—	—	2,468	—	1,620	1,620	18,824	13,487	32,311
Vietnam	1,403	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	21	21
Yemen	—	—	—	—	—	—	—	—	—	—
Other	8,066	918	180	7,304	—	464	464	253	8,210	8,463
Total	2,883,117	3,208	56,326	211,306	—	21,644	21,644	69,841	168,926	238,767
Persian Gulf³	635,341	—	—	2,803	—	—	—	—	—	—

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
OPEC	262	—	—	2,423	—	—	325	—	478	—	803
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	2,423	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	325	—	328	—	653
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	262	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	150	—	150
Non-OPEC	2,815	904	862	14,074	5,304	—	35,813	1,638	14,093	1,410	52,954
Argentina	193	—	—	10,569	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	45	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	553	—	—	—	—	—	270	—	—	—	270
Brazil	637	904	850	—	—	—	—	—	254	—	254
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	162
Canada	—	—	12	2,336	—	—	26,480	670	10,633	222	38,005
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	798	—	—	—	798
Colombia	—	—	—	—	—	—	—	601	156	300	1,057
Congo (Brazzaville)	—	—	—	—	—	—	—	—	200	—	200
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	333	—	—	—	333
France	—	—	—	—	—	—	—	—	50	—	50
Germany	199	—	—	589	—	—	—	—	102	—	113
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	1,423	—	—	400	1,823
Italy	—	—	—	—	—	—	—	—	—	—	220
Korea, South	—	—	—	535	—	—	1,168	54	—	—	1,222
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	220	—	220
Netherlands	954	—	—	—	—	—	350	—	54	115	519
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	500	—	—	—	500
Russia	270	—	—	—	—	—	3,251	—	901	—	4,152
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	674	—	874
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	481	—	481
United Kingdom	9	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	5,304	—	1,240	313	368	373	1,701
Total	3,077	904	862	16,497	5,304	—	36,138	1,638	14,571	1,410	53,757
Persian Gulf³	262	—	—	—	—	—	325	—	328	—	653

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	3,929	527	1,256	1,858	6,834	9,948
Algeria	—	—	—	—	—	1,244	91	—	1,335
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	5	—	—	—	180	180
Gabon	—	—	—	—	—	—	156	—	156
Indonesia	—	—	—	63	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	342	670
Kuwait	—	—	—	90	—	—	—	—	—
Libya	—	—	—	8	—	—	292	—	292
Nigeria	—	—	—	—	—	12	1,012	—	1,024
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	242	527	—	5	155	160
United Arab Emirates	—	—	—	36	—	—	—	1	1
Venezuela	—	—	—	3,485	—	—	130	6,156	6,286
Non-OPEC	855	110	—	49,851	4,536	2,712	7,624	61,884	72,220
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	425	425
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	40	—	143	183
Brazil	—	—	—	—	137	—	1,037	262	1,299
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	387	—	—	387
Canada	1	21	—	3,464	1,503	126	2,841	11,534	14,501
Chad	—	—	—	—	—	—	—	—	—
China	267	—	—	5,408	—	—	—	—	—
Colombia	—	—	—	5	—	—	256	6,585	6,841
Congo (Brazzaville)	—	—	—	—	—	—	477	—	477
Denmark	—	—	—	—	—	—	—	18	18
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	37	6	43
France	—	—	—	—	—	—	182	58	240
Germany	—	28	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	7,417	—	—	—	—	—
Italy	—	—	—	—	42	—	—	295	295
Korea, South	—	—	—	28,223	1,607	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	94	—	—	—	—	—
Mexico	—	—	—	—	—	—	58	18,808	18,866
Netherlands	—	61	—	—	29	—	—	2,919	2,919
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	340	225	—	565
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	20	—	1,046	1,274	13,599	15,919
Spain	—	—	—	—	—	—	—	362	362
Sweden	—	—	—	—	—	—	—	724	724
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	3,967	3,967
United Kingdom	—	—	—	—	—	—	—	62	62
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	587	0	—	5,220	1,218	773	1,237	2,117	4,127
Total	855	110	—	53,780	5,063	3,968	9,482	68,718	82,168
Persian Gulf³	—	—	—	368	527	—	333	498	831

See footnotes at end of table.

Table 40. Year-to-Date Imports of Crude Oil and Petroleum Products into the United States by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	1,332	210	2	1,762	2,464	4,003	—	96,805	1,260,877	3,181	264	3,445
Algeria	952	—	—	—	—	—	—	48,029	66,544	51	131	182
Angola	—	—	—	—	—	—	—	3,359	61,492	159	9	168
Ecuador	—	—	—	—	—	—	—	706	87,565	237	2	239
Gabon	—	—	—	—	—	—	—	—	—	1	—	—
Indonesia	—	—	2	—	—	661	—	3,404	15,717	34	9	43
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,591	154,722	418	4	423
Kuwait	—	—	—	138	—	—	—	228	76,687	209	1	210
Libya	—	—	—	—	—	—	—	1,577	5,828	12	4	16
Nigeria	—	210	—	—	—	—	—	10,366	87,221	210	28	238
Qatar	—	—	—	—	—	3,342	—	3,995	3,995	—	11	11
Saudi Arabia	380	—	—	—	—	—	—	2,660	404,260	1,097	7	1,105
United Arab Emirates	—	—	—	—	—	—	—	830	4,981	11	2	14
Venezuela	—	—	—	1,624	2,464	—	—	19,995	291,361	741	55	796
Non-OPEC	8,269	1,641	1,813	1,810	10,894	10,182	14	701,473	2,420,518	4,697	1,917	6,613
Argentina	17	377	—	510	—	26	—	12,247	16,688	12	33	46
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	172	1,645	4	0	4
Bahamas	—	—	—	—	—	—	—	445	445	—	1	1
Bahrain	—	—	—	—	—	726	—	726	726	—	2	2
Belgium	1	—	—	—	—	171	—	22,472	22,472	—	61	61
Brazil	61	—	41	1	—	24	—	7,874	60,810	145	22	166
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	1,196	1,196	—	3	3
Canada	1,067	892	662	539	9,865	4,044	14	198,542	1,390,120	3,256	542	3,798
Chad	—	—	—	—	—	—	—	—	23,390	64	—	64
China	—	—	666	—	—	—	—	7,806	7,806	—	21	21
Colombia	—	—	—	225	64	—	—	14,962	176,881	442	41	483
Congo (Brazzaville)	—	—	—	—	—	—	—	778	1,925	3	2	5
Denmark	—	—	—	—	—	—	—	534	1,161	2	1	3
Egypt	—	—	—	—	—	1	—	768	4,601	10	2	13
Equatorial Guinea	—	—	—	—	—	—	—	—	2,250	6	—	6
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	6	—	8,287	8,287	—	23	23
France	—	246	—	—	—	111	—	13,890	13,890	—	38	38
Germany	—	—	23	—	—	166	—	2,157	2,157	—	6	6
Guatemala	—	—	—	—	—	—	—	—	2,711	7	—	7
India	—	—	1	—	—	—	—	32,457	32,457	—	89	89
Italy	—	—	24	—	—	220	—	6,509	6,509	—	18	18
Korea, South	881	—	—	—	43	3,727	—	38,900	38,900	—	106	106
Latvia	—	—	—	—	—	—	—	417	417	—	1	1
Lithuania	—	—	—	—	—	—	—	634	634	—	2	2
Malaysia	—	—	126	—	—	—	—	3,237	4,894	5	9	13
Mexico	4,785	—	—	—	—	—	—	31,816	244,895	582	87	669
Netherlands	206	—	1	—	—	12	—	21,559	21,873	1	59	60
Netherlands Antilles	—	—	—	—	64	—	—	64	64	—	0	0
Norway	—	—	—	176	—	—	—	14,853	27,790	35	41	76
Oman	—	—	—	—	—	—	—	36	10,986	30	0	30
Portugal	—	—	—	—	—	—	—	9,212	9,212	—	25	25
Russia	—	—	—	—	—	331	—	144,578	158,550	38	395	433
Spain	—	—	2	—	505	180	—	18,037	18,037	—	49	49
Sweden	—	—	—	7	—	—	—	4,405	4,405	—	12	12
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	7,114	10,406	9	19	28
United Kingdom	527	—	—	314	—	209	—	37,520	44,590	19	103	122
Vietnam	—	—	—	—	—	—	—	—	1,403	4	—	4
Virgin Islands, U.S.	—	—	—	—	—	—	—	21	21	—	0	0
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	724	126	267	38	353	228	0	37,248	45,314	23	104	126
Total	9,601	1,851	1,815	3,572	13,358	14,185	14	798,278	3,681,395	7,877	2,181	10,058
Persian Gulf³	380	—	—	138	—	4,068	—	10,030	645,371	1,736	27	1,763

— = No Data Reported.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	15,123	—	—	227	—	—	—	—	1,062	1,062
Algeria	1,903	—	—	—	—	—	—	—	—	—
Angola	1,643	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	2,135	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	6,400	—	—	227	—	—	—	—	579	579
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	1,550	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	1,492	—	—	—	—	—	—	—	483	483
Non-OPEC	11,356	—	1,785	869	—	868	868	6,681	7,252	13,933
Argentina	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—
Brazil	343	—	—	—	—	—	—	—	301	301
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	7,693	—	1,785	85	—	260	260	3,535	1,720	5,255
Chad	951	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—
Colombia	1,545	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	326	326
France	—	—	—	—	—	—	—	860	—	860
Germany	—	—	—	—	—	—	—	15	—	15
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	319	319
Italy	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—
Mexico	198	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	37	37	542	815	1,357
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	331	331
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	350	350	—	—	—
Russia	—	—	—	482	—	195	195	70	1,214	1,284
Spain	—	—	—	—	—	—	—	—	1,163	1,163
Sweden	—	—	—	—	—	—	—	—	60	60
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	347	—	—	—	—	—	—	—	43	43
United Kingdom	279	—	—	114	—	26	26	1,659	910	2,569
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	0	—	0	188	—	0	0	0	50	50
Total	26,479	—	1,785	1,096	—	868	868	6,681	8,314	14,995
Persian Gulf³	3,685	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	1,427	-	-	3,671	44	1,101	-	4,816
Argentina	-	-	-	1,064	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	115	-	-	2,637	44	901	-	3,582
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	200	-	200
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	333	-	-	-	333
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	248	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	396	-	-	-	396
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	305	-	-	-	305
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	0	0	-	0
Total	-	-	-	1,427	-	-	3,671	44	1,101	-	4,816
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	54	—	—	—	552	552
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	54	—	—	—	552	552
Non-OPEC	224	1	—	1,447	—	—	1	1,713	1,714
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	1	—	147	—	—	1	497	498
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	401	401
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	1,173	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	127	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	441	441
Netherlands	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	338	338
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	224	0	—	0	—	—	0	36	36
Total	224	1	—	1,501	—	—	1	2,265	2,266
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 41. PAD District 1 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	125	419	—	—	2,439	17,562	488	79	567
Algeria	—	—	—	—	—	—	—	—	1,903	61	—	61
Angola	—	—	—	—	—	—	—	—	1,643	53	—	53
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	2,135	69	—	69
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	806	7,206	206	26	232
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	1,550	50	—	50
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	125	419	—	—	1,633	3,125	48	53	101
Non-OPEC	—	—	115	33	235	180	—	27,647	39,003	366	892	1,258
Argentina	—	—	—	—	—	—	—	1,064	1,064	—	34	34
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	1	—	—	—	—	302	645	11	10	21
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	50	—	174	117	—	12,069	19,762	248	389	637
Chad	—	—	—	—	—	—	—	—	951	31	—	31
China	—	—	25	—	—	—	—	25	25	—	1	1
Colombia	—	—	—	33	—	—	—	434	1,979	50	14	64
Congo (Brazzaville)	—	—	—	—	—	—	—	200	200	—	6	6
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	659	659	—	21	21
France	—	—	—	—	—	6	—	866	866	—	28	28
Germany	—	—	—	—	—	11	—	274	274	—	9	9
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	1,888	1,888	—	61	61
Italy	—	—	24	—	—	1	—	25	25	—	1	1
Korea, South	—	—	—	—	—	45	—	172	172	—	6	6
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	441	639	6	14	21
Netherlands	—	—	—	—	—	—	—	1,394	1,394	—	45	45
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	331	331	—	11	11
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	655	655	—	21	21
Russia	—	—	—	—	—	—	—	1,961	1,961	—	63	63
Spain	—	—	1	—	—	—	—	1,164	1,164	—	38	38
Sweden	—	—	—	—	—	—	—	60	60	—	2	2
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	381	728	11	12	23
United Kingdom	—	—	—	—	—	—	—	2,709	2,988	9	87	96
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	14	0	61	0	—	573	573	0	19	18
Total	—	—	115	158	654	180	—	30,086	56,565	854	971	1,825
Persian Gulf³	—	—	—	—	—	—	—	—	3,685	119	—	119

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	537	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	537	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	74,299	4	3,059	-	-	-	-	-	326	326
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	74,299	4	3,059	-	-	-	-	-	326	326
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	-	-	-	0	0
Total	74,836	4	3,059	-	-	-	-	-	326	326
Persian Gulf³	537	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	12	-	-	68	-	-	-	68
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	12	-	-	68	-	-	-	68
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	12	-	-	68	-	-	-	68
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	—	46	—	85	71	156
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	46	—	85	71	156
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	—	—	—	0	—	0	0	0
Total	—	—	—	—	46	—	85	71	156
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 42. PAD District 2 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	—	—	—	537	17	—	17
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	537	17	—	17
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	102	34	12	7	227	202	—	4,255	78,554	2,397	137	2,534
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	1	—	—	—	1	1	—	0	0
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	102	34	12	5	227	202	—	4,253	78,552	2,397	137	2,534
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	1	—	—	—	1	1	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	0	0	—	0	0	0	0	0
Total	102	34	12	7	227	202	—	4,255	79,091	2,414	137	2,551
Persian Gulf³	—	—	—	—	—	—	—	—	537	17	—	17

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	64,605	-	-	2,476	-	-	-	-	-	-
Algeria	1,577	-	-	2,411	-	-	-	-	-	-
Angola	908	-	-	-	-	-	-	-	-	-
Ecuador	515	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	65	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	15,210	-	-	-	-	-	-	-	-	-
Kuwait	4,796	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	21,379	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	20,220	-	-	-	-	-	-	-	-	-
Non-OPEC	36,813	-	36	8,404	-	-	-	-	967	967
Argentina	187	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	582	-	-	-	-	326	326
Brazil	3,125	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	11,206	-	-	-	-	-	-	-	-	-
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	5,701	-	-	-	-	-	-	-	415	415
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	169	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	48	-	-	-	-	-	-
Guatemala	277	-	-	-	-	-	-	-	-	-
India	-	-	-	1,033	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	15,405	-	36	125	-	-	-	-	175	175
Netherlands	-	-	-	145	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	15	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	6,056	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	380	-	-	-	-	-	-	-	-	-
United Kingdom	517	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	-	0	246	-	-	-	-	51	51
Total	101,418	-	36	10,880	-	-	-	-	967	967
Persian Gulf³	41,385	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	68	—	—	—	—	150	—	150
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	68	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	150	—	150
Non-OPEC	221	70	—	911	—	—	—	—	—	18	18
Argentina	44	—	—	816	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	70	—	—	—	—	—	—	—	—	—	—
Brazil	—	70	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	95	—	—	—	—	—	—	—
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—
Germany	17	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	18	18
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	90	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	—	—	—	—	0	0	0
Total	221	70	—	979	—	—	—	—	150	18	168
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	—	—	—	402	402
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	402	402
Non-OPEC	—	28	—	—	254	199	—	812	1,011
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	23	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	—
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	28	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	123	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	752	752
Netherlands	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	199	—	60	259
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	108	0	—	0	0
Total	—	28	—	—	254	199	—	1,214	1,413
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 43. PAD District 3 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	341	—	3,437	68,042	2,084	111	2,195
Algeria	—	—	—	—	—	—	—	2,411	3,988	51	78	129
Angola	—	—	—	—	—	—	—	—	908	29	—	29
Ecuador	—	—	—	—	—	—	—	—	515	17	—	17
Gabon	—	—	—	—	—	—	—	65	65	—	2	2
Indonesia	—	—	—	—	—	72	—	140	140	—	5	5
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	15,210	491	—	491
Kuwait	—	—	—	—	—	—	—	—	4,796	155	—	155
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	269	—	269	269	—	9	9
Saudi Arabia	—	—	—	—	—	—	—	—	21,379	690	—	690
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	552	20,772	652	18	670
Non-OPEC	707	5	51	113	—	341	—	13,142	49,955	1,188	424	1,611
Argentina	—	—	—	113	—	—	—	973	1,160	6	31	37
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	43	—	43	43	—	1	1
Belgium	—	—	—	—	—	2	—	980	980	—	32	32
Brazil	—	—	—	—	—	—	—	93	3,218	101	3	104
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	95	11,301	361	3	365
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	26	—	—	—	—	26	26	—	1	1
Colombia	—	—	—	—	—	—	—	415	6,116	184	13	197
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	169	169	—	5	5
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	6	—	6	6	—	0	0
France	—	5	—	—	—	12	—	17	17	—	1	1
Germany	—	—	—	—	—	4	—	98	98	—	3	3
Guatemala	—	—	—	—	—	—	—	—	277	9	—	9
India	—	—	—	—	—	—	—	1,051	1,051	—	34	34
Italy	—	—	—	—	—	2	—	3	3	—	0	0
Korea, South	—	—	—	—	—	244	—	367	367	—	12	12
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	9	—	—	—	—	9	9	—	0	0
Mexico	316	—	—	—	—	—	—	1,404	16,809	497	45	542
Netherlands	14	—	—	—	—	—	—	249	249	—	8	8
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	15	0	—	0
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	6,315	6,315	—	204	204
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	380	12	—	12
United Kingdom	186	—	—	—	—	16	—	202	719	17	7	23
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	191	0	16	0	—	12	—	627	627	1	21	21
Total	707	5	51	113	—	682	—	16,579	117,997	3,272	535	3,806
Persian Gulf³	—	—	—	—	—	312	—	312	41,697	1,335	10	1,345

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	7,537	-	371	-	-	-	-	-	4	4
Canada	7,537	-	371	-	-	-	-	-	4	4
Other	0	-	0	-	-	-	-	-	0	0
Total	7,537	-	371	-	-	-	-	-	4	4
	PAD District 5									
OPEC	21,885	-	-	386	-	-	-	-	-	-
Algeria	-	-	-	386	-	-	-	-	-	-
Angola	609	-	-	-	-	-	-	-	-	-
Ecuador	6,816	-	-	-	-	-	-	-	-	-
Indonesia	1	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	1,034	-	-	-	-	-	-	-	-	-
Kuwait	3,087	-	-	-	-	-	-	-	-	-
Libya	989	-	-	-	-	-	-	-	-	-
Nigeria	410	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	7,973	-	-	-	-	-	-	-	-	-
United Arab Emirates	428	-	-	-	-	-	-	-	-	-
Venezuela	538	-	-	-	-	-	-	-	-	-
Non-OPEC	11,509	-	1,109	1,514	-	28	28	-	358	358
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	5,829	-	1,044	-	-	28	28	-	358	358
China	-	-	-	-	-	-	-	-	-	-
Colombia	4,186	-	-	-	-	-	-	-	-	-
Finland	-	-	-	26	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	349	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	80	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	402	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	103	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	41	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	743	-	65	1,264	-	0	0	-	0	0
Total	33,394	-	1,109	1,900	-	28	28	-	358	358
Persian Gulf ³	12,522	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
PAD District 4											
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	8	—	—	9	—	—	—	9
Canada	—	—	—	8	—	—	9	—	—	—	9
Other	—	—	—	0	—	—	0	—	—	—	0
Total	—	—	—	8	—	—	9	—	—	—	9
PAD District 5											
OPEC	—	—	—	—	—	—	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	242	557	—	116	—	1	—	117
Argentina	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	145	—	—	116	—	1	—	117
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	97	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	557	—	0	—	0	—	0
Total	—	—	—	242	557	—	116	—	1	—	117
Persian Gulf³	—	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin			Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC	—	—	—	4	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	1	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	—
Other	—	—	—	1	—	—	—	—	—
Total	—	—	—	5	—	—	—	—	—
	PAD District 5								
OPEC	—	—	—	—	—	—	—	31	31
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	31	31
Non-OPEC	—	—	—	2,528	—	—	325	1,876	2,201
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	55	55
Brunei	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	325	317	642
China	—	—	—	555	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	14	14
Finland	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Japan	—	—	—	606	—	—	—	—	—
Korea, South	—	—	—	1,367	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	985	985
Netherlands	—	—	—	—	—	—	—	125	125
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	—	—	17	17
Sweden	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Other	—	—	—	0	—	—	0	363	363
Total	—	—	—	2,528	—	—	325	1,907	2,232
Persian Gulf ³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 44. PAD District 4 and 5 - Imports of Crude Oil and Petroleum Products by Country of Origin, December 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks									Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC	—	—	—	—	—	—	—	4	4	—	0	0
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	—	73	—	1	467	8,004	243	15	258
Canada	—	—	—	—	73	—	1	466	8,003	243	15	258
Other	—	—	—	—	0	—	0	1	1	0	0	0
Total	—	—	—	—	73	—	1	471	8,008	243	15	258
	PAD District 5											
OPEC	—	—	—	—	—	—	—	417	22,302	706	13	719
Algeria	—	—	—	—	—	—	—	386	386	—	12	12
Angola	—	—	—	—	—	—	—	—	609	20	—	20
Ecuador	—	—	—	—	—	—	—	—	6,816	220	—	220
Indonesia	—	—	—	—	—	—	—	—	1	0	—	0
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	1,034	33	—	33
Kuwait	—	—	—	—	—	—	—	—	3,087	100	—	100
Libya	—	—	—	—	—	—	—	—	989	32	—	32
Nigeria	—	—	—	—	—	—	—	—	410	13	—	13
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	7,973	257	—	257
United Arab Emirates	—	—	—	—	—	—	—	—	428	14	—	14
Venezuela	—	—	—	—	—	—	—	31	569	17	1	18
Non-OPEC	—	—	7	33	77	5	—	8,776	20,285	371	283	654
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	55	55	—	2	2
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	33	77	5	—	2,449	8,278	188	79	267
China	—	—	6	—	—	—	—	561	561	—	18	18
Colombia	—	—	—	—	—	—	—	14	4,200	135	0	135
Finland	—	—	—	—	—	—	—	26	26	—	1	1
Germany	—	—	—	—	—	—	—	—	—	—	—	—
Japan	—	—	—	—	—	—	—	606	606	—	20	20
Korea, South	—	—	—	—	—	—	—	1,464	1,464	—	47	47
Malaysia	—	—	1	—	—	—	—	1	1	—	0	0
Mexico	—	—	—	—	—	—	—	985	1,334	11	32	43
Netherlands	—	—	—	—	—	—	—	205	205	—	7	7
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	402	13	—	13
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	103	103	—	3	3
Singapore	—	—	—	—	—	—	—	574	574	—	19	19
Sweden	—	—	—	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	41	41	—	1	1
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	0	—	1,692	2,435	24	54	78
Total	—	—	7	33	77	5	—	9,193	42,587	1,077	297	1,374
Persian Gulf ³	—	—	—	—	—	—	—	—	12,522	404	—	404

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	160,439	—	577	1,720	—	2	2	—	13,286	13,286
Algeria	10,646	—	577	1,277	—	—	—	—	—	—
Angola	28,232	—	—	—	—	—	—	—	323	323
Ecuador	—	—	—	—	—	—	—	—	521	521
Gabon	439	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	255	255
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	19,329	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—
Nigeria	67,046	—	—	443	—	2	2	—	8,120	8,120
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	20,994	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—
Venezuela	13,753	—	—	—	—	—	—	—	4,067	4,067
Non-OPEC	162,129	—	15,534	12,681	—	19,747	19,747	68,476	127,606	196,082
Argentina	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	20	20
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	35	—	1,264	1,264	452	3,846	4,298
Brazil	5,274	—	—	—	—	258	258	—	2,112	2,112
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—
Canada	89,090	—	14,823	193	—	10,006	10,006	32,544	13,329	45,873
Chad	9,512	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	271	271
Colombia	29,976	—	—	294	—	—	—	—	4,076	4,076
Congo (Brazzaville)	1,147	—	—	—	—	—	—	—	56	56
Denmark	—	—	—	73	—	—	—	110	77	187
Egypt	995	—	—	—	—	—	—	—	435	435
Equatorial Guinea	1,298	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	57	—	207	207	227	7,225	7,452
France	—	—	—	241	—	332	332	7,213	1,186	8,399
Germany	—	—	—	—	—	—	—	165	32	197
Guatemala	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	23	23	301	17,580	17,881
Italy	—	—	—	677	—	299	299	151	2,622	2,773
Korea, South	—	—	—	—	—	63	63	—	606	606
Latvia	—	—	—	—	—	—	—	—	417	417
Lithuania	—	—	—	—	—	20	20	—	614	614
Malaysia	—	—	—	—	—	—	—	—	26	26
Mexico	4,941	—	—	—	—	—	—	—	601	601
Netherlands	—	—	—	86	—	1,633	1,633	5,732	6,173	11,905
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	11,713	—	43	—	—	335	335	138	9,490	9,628
Oman	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	1,452	1,452	2,669	4,305	6,974
Russia	—	—	—	7,563	—	196	196	644	16,541	17,185
Spain	—	—	—	321	—	852	852	—	14,639	14,639
Sweden	—	—	668	268	—	308	308	98	605	703
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	347	—	—	—	—	457	457	—	1,718	1,718
United Kingdom	2,189	—	—	1,668	—	1,578	1,578	18,018	12,664	30,682
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	21	21
Yemen	—	—	—	—	—	—	—	—	—	—
Other	5,208	—	0	1,205	—	464	464	14	6,319	6,333
Total	322,568	—	16,111	14,401	—	19,749	19,749	68,476	140,892	209,368
Persian Gulf³	40,323	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	—	—	—	913	—	—	325	—	328	—	653
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	913	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	325	—	328	—	653
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	12	7,493	544	—	30,286	1,271	11,141	782	43,480
Argentina	—	—	—	5,963	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	270	—	—	—	270
Brazil	—	—	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	12	941	—	—	23,329	670	10,101	100	34,200
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	386	—	—	—	386
Colombia	—	—	—	—	—	—	—	—	73	300	974
Congo (Brazzaville)	—	—	—	—	—	—	—	—	200	—	200
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	333	—	—	—	333
France	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	589	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	1,423	—	—	382	1,805
Italy	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	400	—	—	—	400
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	350	—	—	—	350
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	500	—	—	—	500
Russia	—	—	—	—	—	—	3,035	—	—	—	3,035
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	286	—	286
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	481	—	481
United Kingdom	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	544	—	260	601	0	0	260
Total	—	—	12	8,406	544	—	30,611	1,271	11,469	782	44,133
Persian Gulf³	—	—	—	—	—	—	325	—	328	—	653

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	3,803	—	1,244	374	978	2,596
Algeria	—	—	—	—	—	1,244	—	—	1,244
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	156	—	156
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	90	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	374	—	374
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	228	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	3,485	—	—	—	978	978
Non-OPEC	854	11	—	16,782	—	590	3,005	22,310	25,905
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	78	78
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	348	184	532
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	387	—	—	387
Canada	—	11	—	3,424	—	—	1,581	8,619	10,200
Chad	—	—	—	—	—	—	—	—	—
China	267	—	—	842	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	5,312	5,312
Congo (Brazzaville)	—	—	—	—	—	—	477	—	477
Denmark	—	—	—	—	—	—	—	4	4
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	37	—	37
France	—	—	—	—	—	—	6	—	6
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	7,391	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	4,649	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	58	1,054	1,112
Netherlands	—	—	—	—	—	—	—	1,703	1,703
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	342	1,148	1,490
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	583	583
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	3,277	3,277
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	587	0	—	476	—	203	0	348	551
Total	854	11	—	20,585	—	1,834	3,379	23,288	28,501
Persian Gulf³	—	—	—	318	—	—	—	—	—

See footnotes at end of table.

Table 45. PAD District 1 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	1,624	2,392	68	—	27,635	188,074	438	76	514
Algeria	—	—	—	—	—	—	—	3,098	13,744	29	8	38
Angola	—	—	—	—	—	—	—	323	28,555	77	1	78
Ecuador	—	—	—	—	—	—	—	521	521	—	1	1
Gabon	—	—	—	—	—	—	—	156	—	1	0	—
Indonesia	—	—	1	—	—	—	—	1,169	1,169	—	3	3
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	19,329	53	—	53
Kuwait	—	—	—	—	—	—	—	90	90	—	0	0
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	8,939	75,985	183	24	208
Qatar	—	—	—	—	—	68	—	721	721	—	2	2
Saudi Arabia	—	—	—	—	—	—	—	228	21,222	57	1	58
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	1,624	2,392	—	—	12,546	26,299	38	34	72
Non-OPEC	23	13	941	238	6,558	2,220	—	349,124	511,253	443	954	1,397
Argentina	—	—	—	—	—	5	—	5,968	5,968	—	16	16
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	98	98	—	0	0
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	1	—	—	—	—	53	—	5,921	5,921	—	16	16
Brazil	—	—	41	—	—	24	—	2,967	8,241	14	8	23
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	387	387	—	1	1
Canada	16	13	536	13	5,800	1,449	—	127,510	216,600	243	348	592
Chad	—	—	—	—	—	—	—	—	9,512	26	—	26
China	—	—	179	—	—	—	—	1,945	1,945	—	5	5
Colombia	—	—	—	225	64	—	—	10,945	40,921	82	30	112
Congo (Brazzaville)	—	—	—	—	—	—	—	733	1,880	3	2	5
Denmark	—	—	—	—	—	—	—	264	264	—	1	1
Egypt	—	—	—	—	—	—	—	435	1,430	3	1	4
Equatorial Guinea	—	—	—	—	—	—	—	—	1,298	4	—	4
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	8,086	8,086	—	22	22
France	—	—	—	—	—	79	—	9,057	9,057	—	25	25
Germany	—	—	20	—	—	83	—	889	889	—	2	2
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	27,100	27,100	—	74	74
Italy	—	—	24	—	—	25	—	3,798	3,798	—	10	10
Korea, South	—	—	—	—	—	150	—	5,868	5,868	—	16	16
Latvia	—	—	—	—	—	—	—	417	417	—	1	1
Lithuania	—	—	—	—	—	—	—	634	634	—	2	2
Malaysia	—	—	3	—	—	—	—	29	29	—	0	0
Mexico	—	—	—	—	—	—	—	1,713	6,654	14	5	18
Netherlands	6	—	1	—	—	—	—	15,684	15,684	—	43	43
Netherlands Antilles	—	—	—	—	64	—	—	64	64	—	0	0
Norway	—	—	—	—	—	—	—	10,006	21,719	32	27	59
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	8,926	8,926	—	24	24
Russia	—	—	—	—	—	331	—	29,806	29,806	—	81	81
Spain	—	—	1	—	307	19	—	16,139	16,139	—	44	44
Sweden	—	—	—	—	—	—	—	2,816	2,816	—	8	8
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	5,933	6,280	1	16	17
United Kingdom	—	—	—	—	—	—	—	33,928	36,117	6	93	99
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	21	21	—	0	0
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	136	0	323	2	—	10,881	16,684	14	33	47
Total	23	13	942	1,862	8,950	2,288	—	376,759	699,327	881	1,029	1,911
Persian Gulf³	—	—	—	—	—	68	—	1,039	41,362	110	3	113

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	14,251	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	14,251	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	793,411	330	29,338	-	-	65	65	-	2,356	2,356
Argentina	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	792,901	330	29,338	-	-	65	65	-	2,356	2,356
Chad	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	510	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	0	0	0	-	-	0	0	-	0	0
Total	807,662	330	29,338	-	-	65	65	-	2,356	2,356
Persian Gulf³	14,251	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	611	-	-	504	-	163	122	789
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Bahamas	-	-	-	-	-	-	-	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	611	-	-	504	-	163	122	789
Chad	-	-	-	-	-	-	-	-	-	-	-
China	-	-	-	-	-	-	-	-	-	-	-
Colombia	-	-	-	-	-	-	-	-	-	-	-
Congo (Brazzaville)	-	-	-	-	-	-	-	-	-	-	-
Denmark	-	-	-	-	-	-	-	-	-	-	-
Egypt	-	-	-	-	-	-	-	-	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Guatemala	-	-	-	-	-	-	-	-	-	-	-
India	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Korea, South	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-	-	-	-
Russia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Syria	-	-	-	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	0	-	-	0	-	0	0	0
Total	-	-	-	611	-	-	504	-	163	122	789
Persian Gulf³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	5	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	5	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	1	2	—	—	566	—	758	506	1,264
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	—	—
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	1	2	—	—	566	—	758	506	1,264
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	0	—	0	0	0
Total	1	2	—	5	566	—	758	506	1,264
Persian Gulf³	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 46. PAD District 2 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	—	—	—	—	—	4	—	9	14,260	39	0	39
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	5	5	—	0	0
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	4	—	4	4	—	0	0
Saudi Arabia	—	—	—	—	—	—	—	—	14,251	39	—	39
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	1,011	740	70	188	2,671	2,519	—	42,625	836,036	2,168	116	2,284
Argentina	—	—	—	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	1	—	—	—	1	1	—	0	0
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	—	—
Canada	1,011	740	70	180	2,671	2,512	—	42,610	835,511	2,166	116	2,283
Chad	—	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	—	—	—	—
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	7	—	7	7	—	0	0
Guatemala	—	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—	—	—
Korea, South	—	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	510	1	—	1
Netherlands	—	—	—	—	—	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	7	—	—	—	7	7	—	0	0
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	0	0	—	0	0	1	0	0
Total	1,011	740	70	188	2,671	2,523	—	42,634	850,296	2,207	116	2,323
Persian Gulf³	—	—	—	—	—	4	—	4	14,255	39	0	39

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	732,584	—	—	44,081	—	—	—	—	2,475	2,475
Algeria	7,869	—	—	36,690	—	—	—	—	515	515
Angola	19,195	—	—	3,036	—	—	—	—	—	—
Ecuador	13,103	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—
Iraq	119,748	—	—	921	—	—	—	—	—	—
Kuwait	49,167	—	—	—	—	—	—	—	—	—
Libya	—	—	—	966	—	—	—	—	—	—
Nigeria	9,119	—	—	—	—	—	—	—	567	567
Qatar	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	257,654	—	—	1,351	—	—	—	—	—	—
United Arab Emirates	—	—	—	531	—	—	—	—	—	—
Venezuela	256,729	—	—	521	—	—	—	—	1,393	1,393
Non-OPEC	495,713	2,878	287	123,623	—	808	808	638	13,353	13,991
Argentina	1,584	—	—	166	—	—	—	—	219	219
Aruba	—	—	—	—	—	—	—	—	—	—
Australia	656	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	13,791	—	—	—	—	684	684
Brazil	38,438	—	—	296	—	65	65	—	918	918
Brunei	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	525	—	—	—	—	—	—
Canada	128,436	—	—	921	—	569	569	—	498	498
Chad	13,878	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	96	96	—	300	300
Colombia	86,254	—	—	990	—	—	—	—	1,218	1,218
Congo (Brazzaville)	—	—	—	45	—	—	—	—	—	—
Denmark	627	—	—	206	—	—	—	—	—	—
Egypt	2,838	—	—	199	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	30	30
France	—	—	—	4,137	—	—	—	—	25	25
Germany	—	—	—	498	—	—	—	—	—	—
Guatemala	2,711	—	—	—	—	—	—	—	—	—
India	—	—	—	1,786	—	—	—	—	830	830
Italy	—	—	45	1,106	—	—	—	—	309	309
Korea, South	—	—	—	214	—	4	4	—	82	82
Latvia	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	315	315
Mexico	206,928	1,960	199	687	—	—	—	—	4,498	4,498
Netherlands	—	—	43	1,831	—	57	57	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
Norway	1,224	—	—	3,532	—	—	—	—	194	194
Oman	15	—	—	—	—	—	—	—	36	36
Portugal	—	—	—	—	—	—	—	—	286	286
Russia	2,545	—	—	86,488	—	—	—	—	537	537
Spain	—	—	—	369	—	17	17	—	790	790
Sweden	—	—	—	807	—	—	—	—	—	—
Syria	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	2,945	—	—	—	—	—	—	—	—	—
United Kingdom	4,881	—	—	337	—	—	—	638	520	1,158
Vietnam	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—
Other	1,753	918	0	4,692	—	0	0	0	1,064	1,064
Total	1,228,297	2,878	287	167,704	—	808	808	638	15,828	16,466
Persian Gulf³	426,569	—	—	2,803	—	—	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	262	—	—	1,510	—	—	—	—	150	—	150
Algeria	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	1,510	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	262	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	150	—	150
Non-OPEC	2,815	904	94	4,786	—	—	216	313	2,572	506	3,607
Argentina	193	—	—	4,606	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	45	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—	—	—
Belgium	553	—	—	—	—	—	—	—	—	—	—
Brazil	637	904	94	—	—	—	—	—	254	—	254
Brunei	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—	—	162
Canada	—	—	—	135	—	—	—	—	300	—	300
Chad	—	—	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—	83	—	83
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	—	—	—	—	—	—	—	50	—	50
Germany	199	—	—	—	—	—	—	—	102	—	113
Guatemala	—	—	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—	18	18
Italy	—	—	—	—	—	—	—	—	—	—	220
Korea, South	—	—	—	—	—	—	—	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	220	—	220
Netherlands	954	—	—	—	—	—	—	—	54	—	169
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—	—	—
Russia	270	—	—	—	—	—	216	—	901	—	1,117
Spain	—	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	388	—	588
Syria	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	—	—	—	—
United Kingdom	9	—	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—
Other	0	0	0	0	—	—	0	313	220	488	313
Total	3,077	904	94	6,296	—	—	216	313	2,722	506	3,757
Persian Gulf³	262	—	—	—	—	—	—	—	—	—	—

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil			
						Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
OPEC	—	—	—	—	527	12	1,155	5,632	6,799
Algeria	—	—	—	—	—	—	91	—	91
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Gabon	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	342	670
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	292	—	292
Nigeria	—	—	—	—	—	12	309	—	321
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	527	—	5	155	160
United Arab Emirates	—	—	—	—	—	—	—	1	1
Venezuela	—	—	—	—	—	—	130	5,134	5,264
Non-OPEC	—	28	—	—	3,970	2,122	3,271	14,654	20,047
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Bahamas	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	40	—	143	183
Brazil	—	—	—	—	137	—	689	—	689
Brunei	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	937	126	137	—	263
Chad	—	—	—	—	—	—	—	—	—
China	—	—	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	256	1,253	1,509
Congo (Brazzaville)	—	—	—	—	—	—	—	—	—
Denmark	—	—	—	—	—	—	—	14	14
Egypt	—	—	—	—	—	—	—	—	—
Equatorial Guinea	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	—	—	6	6
France	—	—	—	—	—	—	176	58	234
Germany	—	28	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	—	—	—
India	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	42	—	—	295	295
Korea, South	—	—	—	—	1,607	—	—	—	—
Latvia	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—
Malaysia	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	6,358	6,358
Netherlands	—	—	—	—	29	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	340	225	—	565
Oman	—	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—	—
Russia	—	—	—	—	—	1,046	707	5,260	7,013
Spain	—	—	—	—	—	—	—	362	362
Sweden	—	—	—	—	—	—	—	141	141
Syria	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	349	349
United Kingdom	—	—	—	—	—	—	—	62	62
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—
Other	—	0	—	—	1,218	570	1,081	353	2,004
Total	—	28	—	—	4,497	2,134	4,426	20,286	26,846
Persian Gulf³	—	—	—	—	527	—	333	498	831

See footnotes at end of table.

Table 47. PAD District 3 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks		Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
OPEC	1,332	210	—	138	72	3,931	—	61,487	794,071	2,002	168	2,170
Algeria	952	—	—	—	—	—	—	38,248	46,117	22	105	126
Angola	—	—	—	—	—	—	—	3,036	22,231	52	8	61
Ecuador	—	—	—	—	—	—	—	—	13,103	36	—	36
Gabon	—	—	—	—	—	—	—	—	—	—	—	—
Indonesia	—	—	—	—	—	661	—	2,171	2,171	—	6	6
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	1,591	121,339	327	4	332
Kuwait	—	—	—	138	—	—	—	138	49,305	134	0	135
Libya	—	—	—	—	—	—	—	1,258	1,258	—	3	3
Nigeria	—	210	—	—	—	—	—	1,098	10,217	25	3	28
Qatar	—	—	—	—	—	3,270	—	3,270	3,270	—	9	9
Saudi Arabia	380	—	—	—	—	—	—	2,418	260,072	704	7	711
United Arab Emirates	—	—	—	—	—	—	—	794	794	—	2	2
Venezuela	—	—	—	—	72	—	—	7,400	264,129	701	20	722
Non-OPEC	6,899	888	306	1,038	30	5,246	—	192,335	688,048	1,354	526	1,880
Argentina	17	377	—	510	—	21	—	6,109	7,693	4	17	21
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	45	701	2	0	2
Bahamas	—	—	—	—	—	—	—	—	—	—	—	—
Bahrain	—	—	—	—	—	726	—	726	726	—	2	2
Belgium	—	—	—	—	—	117	—	15,328	15,328	—	42	42
Brazil	61	—	—	—	—	—	—	4,072	42,510	105	11	116
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Cameroon	—	—	—	—	—	—	—	687	687	—	2	2
Canada	40	139	—	—	—	—	—	3,802	132,238	351	10	361
Chad	—	—	—	—	—	—	—	—	13,878	38	—	38
China	—	—	132	—	—	—	—	528	528	—	1	1
Colombia	—	—	—	—	—	—	—	3,800	90,054	236	10	246
Congo (Brazzaville)	—	—	—	—	—	—	—	45	45	—	0	0
Denmark	—	—	—	—	—	—	—	220	847	2	1	2
Egypt	—	—	—	—	—	1	—	200	3,038	8	1	8
Equatorial Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Estonia	—	—	—	—	—	—	—	—	—	—	—	—
Finland	—	—	—	—	—	6	—	42	42	—	0	0
France	—	246	—	—	—	32	—	4,724	4,724	—	13	13
Germany	—	—	2	—	—	76	—	923	923	—	3	3
Guatemala	—	—	—	—	—	—	—	—	2,711	7	—	7
India	—	—	1	—	—	—	—	2,635	2,635	—	7	7
Italy	—	—	—	—	—	195	—	2,226	2,226	—	6	6
Korea, South	689	—	—	—	—	3,474	—	6,084	6,084	—	17	17
Latvia	—	—	—	—	—	—	—	—	—	—	—	—
Lithuania	—	—	—	—	—	—	—	—	—	—	—	—
Malaysia	—	—	122	—	—	—	—	437	437	—	1	1
Mexico	4,785	—	—	—	—	—	—	18,707	225,635	565	51	616
Netherlands	200	—	—	—	—	12	—	3,306	3,306	—	9	9
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Norway	—	—	—	176	—	—	—	4,467	5,691	3	12	16
Oman	—	—	—	—	—	—	—	36	51	0	0	0
Portugal	—	—	—	—	—	—	—	286	286	—	1	1
Russia	—	—	—	—	—	—	—	95,426	97,971	7	261	268
Spain	—	—	1	—	—	161	—	1,700	1,700	—	5	5
Sweden	—	—	—	—	—	—	—	1,536	1,536	—	4	4
Syria	—	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	—	349	3,294	8	1	9
United Kingdom	527	—	—	314	—	209	—	2,616	7,497	13	7	20
Vietnam	—	—	—	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Yemen	—	—	—	—	—	—	—	—	—	—	—	—
Other	580	126	48	38	30	216	—	11,273	13,026	5	31	37
Total	8,231	1,098	306	1,176	102	9,177	—	253,822	1,482,119	3,356	694	4,050
Persian Gulf³	380	—	—	138	—	3,996	—	8,937	435,506	1,165	24	1,190

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels)

Country of Origin	Crude Oil ^{1,2}	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils ¹	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reform-ulated	Conven- tional	Total	Reform-ulated	Conven- tional	Total
	PAD District 4									
OPEC	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-
Non-OPEC	98,672	-	3,736	-	-	-	-	-	644	644
Canada	98,672	-	3,736	-	-	-	-	-	644	644
Other	0	-	0	-	-	-	-	-	0	0
Total	98,672	-	3,736	-	-	-	-	-	644	644
	PAD District 5									
OPEC	256,798	-	-	6,994	-	-	-	5	-	5
Algeria	-	-	-	6,683	-	-	-	-	-	-
Angola	10,706	-	-	-	-	-	-	-	-	-
Ecuador	73,756	-	-	-	-	-	-	-	-	-
Indonesia	12,313	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	14,054	-	-	-	-	-	-	-	-	-
Kuwait	27,292	-	-	-	-	-	-	-	-	-
Libya	4,251	-	-	311	-	-	-	-	-	-
Nigeria	690	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	108,701	-	-	-	-	-	-	-	-	-
United Arab Emirates	4,151	-	-	-	-	-	-	-	-	-
Venezuela	884	-	-	-	-	-	-	-	-	5
Non-OPEC	169,120	-	6,854	22,207	-	1,022	1,022	722	9,206	9,928
Argentina	2,857	-	170	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-
Australia	817	-	127	-	-	-	-	-	-	-
Brazil	9,224	-	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-
Canada	82,479	-	6,115	267	-	714	714	-	5,010	5,010
China	-	-	-	-	-	-	-	-	-	-
Colombia	45,689	-	-	-	-	-	-	-	192	192
Finland	-	-	-	159	-	-	-	-	-	-
Germany	-	-	-	333	-	-	-	4	-	4
Japan	-	-	-	210	-	-	-	-	300	300
Korea, South	-	-	119	575	-	169	169	-	816	816
Malaysia	1,657	-	-	2,676	-	-	-	-	-	-
Mexico	700	-	-	-	-	-	-	-	-	-
Netherlands	314	-	-	979	-	39	39	45	229	274
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Oman	10,935	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-
Peru	666	-	120	408	-	-	-	-	-	-
Singapore	-	-	-	602	-	-	-	239	97	336
Sweden	-	-	-	46	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	430	430
United Kingdom	-	-	-	463	-	42	42	168	303	471
Vietnam	1,403	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-
Other	12,379	-	203	15,489	-	58	58	266	1,829	2,095
Total	425,918	-	6,854	29,201	-	1,022	1,022	727	9,206	9,933
Persian Gulf ³	154,198	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	Total
	PAD District 4										
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	-	146	-	-	58	-	-	-	58
Canada	-	-	-	146	-	-	58	-	-	-	58
Other	-	-	-	0	-	-	0	-	-	-	0
Total	-	-	-	146	-	-	58	-	-	-	58
	PAD District 5										
OPEC	-	-	-	-	-	-	-	-	-	-	-
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-	-	-
Venezuela	-	-	-	-	-	-	-	-	-	-	-
Non-OPEC	-	-	756	1,038	4,760	-	4,749	54	217	-	5,020
Argentina	-	-	-	-	-	-	-	-	-	-	-
Aruba	-	-	-	-	-	-	-	-	-	-	-
Australia	-	-	-	-	-	-	-	-	-	-	-
Brazil	-	-	756	-	-	-	-	-	-	-	-
Brunei	-	-	-	-	-	-	-	-	-	-	-
Canada	-	-	-	503	-	-	2,589	-	69	-	2,658
China	-	-	-	-	-	-	412	-	-	-	412
Colombia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	980	-	-	-	980
Korea, South	-	-	-	535	-	-	768	54	-	-	822
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-	-	-	-	-	-	-	-	-	-	-
Netherlands	-	-	-	-	-	-	-	-	-	-	-
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-	-	-
Papua New Guinea	-	-	-	-	-	-	-	-	-	-	-
Peru	-	-	-	-	-	-	-	-	-	-	-
Singapore	-	-	-	-	-	-	-	-	148	-	148
Sweden	-	-	-	-	-	-	-	-	-	-	-
Taiwan	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	0	0	4,760	-	0	0	0	-	0
Total	-	-	756	1,038	4,760	-	4,749	54	217	-	5,020
Persian Gulf ³	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin						Residual Fuel Oil			
	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Less than 0.31 % sulfur	0.31 to 1.00 % sulfur	Greater than 1.00 % sulfur	Total
	PAD District 4								
OPEC	—	—	—	14	—	—	—	—	—
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—
Non-OPEC	—	8	—	5	—	—	—	—	—
Canada	—	8	—	—	—	—	—	—	—
Other	—	0	—	5	—	—	—	—	—
Total	—	8	—	19	—	—	—	—	—
	PAD District 5								
OPEC	—	—	—	107	—	—	329	224	553
Algeria	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	180	180
Indonesia	—	—	—	63	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—
Libya	—	—	—	8	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	329
Qatar	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	36	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	44	44
Non-OPEC	—	61	—	33,064	—	—	590	24,414	25,004
Argentina	—	—	—	—	—	—	—	—	—
Aruba	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	—	—
Brazil	—	—	—	—	—	—	—	78	78
Brunei	—	—	—	—	—	—	—	—	—
Canada	—	—	—	40	—	—	365	2,409	2,774
China	—	—	—	4,566	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	20	20
Finland	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—
Japan	—	—	—	4,110	—	—	—	—	—
Korea, South	—	—	—	23,574	—	—	—	—	—
Malaysia	—	—	—	94	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	11,396	11,396
Netherlands	—	61	—	—	—	—	—	1,216	1,216
Netherlands Antilles	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	—
Papua New Guinea	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	852	852
Singapore	—	—	—	—	—	—	—	193	193
Sweden	—	—	—	—	—	—	—	—	—
Taiwan	—	—	—	634	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—
Vietnam	—	—	—	—	—	—	—	—	—
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—
Other	—	0	—	46	—	—	225	8,250	8,475
Total	—	61	—	33,171	—	—	919	24,638	25,557
Persian Gulf ³	—	—	—	36	—	—	—	—	—

See footnotes at end of table.

Table 48. PAD District 4 and 5 - Year-to-Date Imports of Crude Oil and Petroleum Products by Country of Origin, January-December 2016
(Thousand Barrels) — Continued

Country of Origin	Petrochemical Feedstocks									Daily Average		
	Naphtha	Other Oils								Crude Oil	Products	Total
	PAD District 4											
OPEC	—	—	—	—	—	—	—	14	14	—	0	0
Algeria	—	—	—	—	—	—	—	—	—	—	—	—
Angola	—	—	—	—	—	—	—	—	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—	—	—	—	—
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	—	—	—	—
Kuwait	—	—	—	—	—	—	—	—	—	—	—	—
Libya	—	—	—	—	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—	—	—	—	—
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	—	—	—	—
United Arab Emirates	—	—	—	—	—	—	—	—	—	—	—	—
Venezuela	—	—	—	—	—	—	—	—	—	—	—	—
Non-OPEC	—	—	—	—	521	—	14	5,186	103,858	270	14	284
Canada	—	—	—	—	521	—	14	5,181	103,853	270	14	284
Other	—	—	—	—	0	—	0	5	5	0	0	0
Total	—	—	—	—	521	—	14	5,200	103,872	270	14	284
	PAD District 5											
OPEC	—	—	—	—	—	—	—	7,660	264,458	702	21	723
Algeria	—	—	—	—	—	—	—	6,683	6,683	—	18	18
Angola	—	—	—	—	—	—	—	—	10,706	29	—	29
Ecuador	—	—	—	—	—	—	—	180	73,936	202	0	202
Indonesia	—	—	1	—	—	—	—	64	12,377	34	0	34
Iran	—	—	—	—	—	—	—	—	—	—	—	—
Iraq	—	—	—	—	—	—	—	—	14,054	38	—	38
Kuwait	—	—	—	—	—	—	—	—	27,292	75	—	75
Libya	—	—	—	—	—	—	—	319	4,570	12	1	12
Nigeria	—	—	—	—	—	—	—	329	1,019	2	1	3
Qatar	—	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—	108,701	297	—	297
United Arab Emirates	—	—	—	—	—	—	—	36	4,187	11	0	11
Venezuela	—	—	—	—	—	—	—	49	933	2	0	3
Non-OPEC	336	—	496	346	1,114	197	—	112,203	281,323	462	307	769
Argentina	—	—	—	—	—	—	—	170	3,027	8	0	8
Aruba	—	—	—	—	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	—	—	127	944	2	0	3
Brazil	—	—	—	—	—	—	—	834	10,058	25	2	27
Brunei	—	—	—	—	—	—	—	—	—	—	—	—
Canada	—	—	56	346	873	83	—	19,439	101,918	225	53	278
China	—	—	355	—	—	—	—	5,333	5,333	—	15	15
Colombia	—	—	—	—	—	—	—	212	45,901	125	1	125
Finland	—	—	—	—	—	—	—	159	159	—	0	0
Germany	—	—	1	—	—	—	—	338	338	—	1	1
Japan	—	—	74	—	—	10	—	5,684	5,684	—	16	16
Korea, South	192	—	—	—	43	103	—	26,948	26,948	—	74	74
Malaysia	—	—	1	—	—	—	—	2,771	4,428	5	8	12
Mexico	—	—	—	—	—	—	—	11,396	12,096	2	31	33
Netherlands	—	—	—	—	—	—	—	2,569	2,883	1	7	8
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—	—
Oman	—	—	—	—	—	—	—	—	10,935	30	—	30
Papua New Guinea	—	—	—	—	—	—	—	—	—	—	—	—
Peru	—	—	—	—	—	—	—	1,380	2,046	2	4	6
Singapore	—	—	—	—	—	—	—	6,039	6,039	—	17	17
Sweden	—	—	—	—	—	—	—	46	46	—	0	0
Taiwan	144	—	—	—	—	—	—	1,208	1,208	—	3	3
United Kingdom	—	—	—	—	—	—	—	976	976	—	3	3
Vietnam	—	—	—	—	—	—	—	—	1,403	4	—	4
Virgin Islands, U.S.	—	—	—	—	—	—	—	—	—	—	—	—
Other	0	—	9	0	198	1	—	26,574	38,953	33	72	106
Total	336	—	497	346	1,114	197	—	119,863	545,781	1,164	327	1,491
Persian Gulf ³	—	—	—	—	—	—	—	36	154,234	421	0	421

— = No Data Reported.

¹ Crude oil and unfinished oils are reported by PAD District of processing; all other products are reported by PAD District of Entry.

² Includes crude oil imported for storage in the Strategic Petroleum Reserve.

³ Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA) Form EIA-814, "Monthly Imports Report."

Table 49. Exports of Crude Oil and Petroleum Products by PAD District, December 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	—	5,358	8,309	24	—	13,691	442
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	2,452	6,525	34,425	391	1,127	44,920	1,449
Pentanes Plus	106	4,191	33	390	29	4,749	153
Liquefied Petroleum Gases	2,346	2,335	34,393	0	1,098	40,171	1,296
Ethane/Ethylene	994	2,148	1,134	—	—	4,276	138
Propane/Propylene	1,332	70	30,272	0	988	32,661	1,054
Normal Butane/Butylene	19	117	2,819	0	110	3,065	99
Isobutane/Isobutylene	1	—	168	—	—	169	5
Other Liquids	1,967	1,081	8,336	44	394	11,822	381
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	98	549	3,356	0	148	4,151	134
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	1	1	1,733	0	2	1,736	56
Methyl Tertiary Butyl Ether (MTBE)	0	—	827	—	—	827	27
Other Oxygenates	1	1	906	0	2	910	29
Renewable Fuels (including Fuel Ethanol) ...	97	548	1,623	0	146	2,415	78
Fuel Ethanol	93	541	1,588	—	113	2,334	75
Biomass-Based Diesel	4	7	35	0	34	80	3
Other Renewable Diesel	—	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	1,595	108	2,845	44	26	4,618	149
Naphthas and Lighter	1,587	104	2,786	44	25	4,547	147
Kerosene and Light Gas Oils	7	4	59	—	1	71	2
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	274	424	2,134	—	220	3,053	98
Reformulated	0	0	1	—	—	1	0
Conventional	274	424	2,134	—	220	3,052	98
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	3,106	2,175	81,715	25	11,797	98,818	3,188
Finished Motor Gasoline	104	590	25,219	1	2,836	28,750	927
Reformulated	—	—	—	—	—	—	—
Conventional	104	590	25,219	1	2,836	28,750	927
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	16	110	4,917	—	1,080	6,122	197
Kerosene	2	1	7	—	3	13	0
Distillate Fuel Oil	823	193	32,659	0	3,740	37,415	1,207
15 ppm sulfur and under	560	1	27,386	0	3,569	31,516	1,017
Greater than 15 ppm to 500 ppm sulfur	263	56	4,502	—	114	4,934	159
Greater than 500 ppm sulfur	0	135	771	—	57	964	31
Residual Fuel Oil	933	520	5,645	12	425	7,535	243
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	209	184	1,846	10	105	2,354	76
Waxes	63	27	25	0	4	119	4
Petroleum Coke	898	469	11,111	0	3,465	15,943	514
Asphalt and Road Oil	45	81	281	2	40	449	14
Miscellaneous Products	13	0	5	—	99	117	4
Total	7,525	15,139	132,785	484	13,319	169,251	5,460

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 50. Year-to-Date Exports of Crude Oil and Petroleum Products by PAD District, January-December 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total	
	1	2	3	4	5	Total	Daily Average
Crude Oil¹	50,334	31,661	102,391	2,555	3,311	190,252	520
Natural Gas Plant Liquids and Liquefied							
Refinery Gases	24,703	99,719	297,738	2,165	14,998	439,324	1,200
Pentanes Plus	1,167	68,118	716	1,722	198	71,920	197
Liquefied Petroleum Gases	23,536	31,601	297,023	443	14,801	367,403	1,004
Ethane/Ethylene	7,479	25,406	1,815	—	—	34,700	95
Propane/Propylene	14,482	2,287	264,049	24	10,553	291,395	796
Normal Butane/Butylene	1,563	3,905	29,001	419	4,248	39,136	107
Isobutane/Isobutylene	11	2	2,158	—	0	2,172	6
Other Liquids	22,465	10,702	140,838	542	6,968	181,514	496
Hydrogen/Oxygenates/Renewables/ Other Hydrocarbons	1,467	6,645	43,056	101	1,500	52,769	144
Hydrogen	—	—	—	—	—	—	—
Oxygenates (excluding Fuel Ethanol)	19	4	25,724	0	17	25,765	70
Methyl Tertiary Butyl Ether (MTBE)	1	0	15,541	—	0	15,542	42
Other Oxygenates	18	4	10,183	0	17	10,222	28
Renewable Fuels (including Fuel Ethanol) ...	1,448	6,640	17,333	100	1,483	27,004	74
Fuel Ethanol	1,393	5,426	16,884	19	1,189	24,911	68
Biomass-Based Diesel	55	1,214	449	81	294	2,093	6
Other Renewable Diesel	—	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—	—
Other Hydrocarbons	—	—	—	—	—	—	—
Unfinished Oils	18,809	1,755	59,036	433	1,064	81,097	222
Naphthas and Lighter	16,260	1,685	43,802	432	1,023	63,203	173
Kerosene and Light Gas Oils	2,549	70	15,234	1	41	17,895	49
Heavy Gas Oils	—	—	—	—	—	—	—
Residuum	—	—	—	—	—	—	—
Motor Gasoline Blend.Comp. (MGBC)	2,189	2,302	38,745	8	4,404	47,648	130
Reformulated	5	1	39	—	4	49	0
Conventional	2,184	2,301	38,705	8	4,401	47,599	130
Aviation Gasoline Blend. Comp.	—	—	—	—	—	—	—
Finished Petroleum Products	49,571	22,371	895,431	728	119,510	1,087,612	2,972
Finished Motor Gasoline	947	4,289	207,037	12	18,758	231,043	631
Reformulated	—	—	—	—	—	—	—
Conventional	947	4,289	207,037	12	18,758	231,043	631
Finished Aviation Gasoline	—	—	—	—	—	—	—
Kerosene-Type Jet Fuel	582	4,628	50,178	0	9,122	64,510	176
Kerosene	329	256	2,670	—	28	3,284	9
Distillate Fuel Oil	23,788	2,812	374,077	35	34,769	435,481	1,190
15 ppm sulfur and under	19,222	688	325,000	0	23,796	368,706	1,007
Greater than 15 ppm to 500 ppm sulfur	3,799	1,411	33,101	35	4,385	42,731	117
Greater than 500 ppm sulfur	767	712	15,976	—	6,588	24,044	66
Residual Fuel Oil	12,344	3,254	78,284	472	11,034	105,389	288
Naphtha for Petro. Feed. Use	—	—	—	—	—	—	—
Other Oils for Petro. Feed. Use	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	—	—	—
Lubricants	2,467	2,103	21,496	130	2,298	28,494	78
Waxes	661	354	202	2	80	1,299	4
Petroleum Coke	7,362	3,220	156,822	2	42,825	210,232	574
Asphalt and Road Oil	925	1,453	4,399	75	486	7,338	20
Miscellaneous Products	165	3	265	0	109	542	1
Total	147,073	164,453	1,436,398	5,989	144,787	1,898,701	5,188

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2016
(Thousand Barrels)

Destination	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	—	5	—	—	—	2	2	—	—	—
Australia	—	—	1	2	—	0	0	—	0	0
Bahamas	—	0	23	1	—	284	284	—	0	0
Bahrain	—	—	—	—	—	—	—	—	—	—
Belgium	—	1	—	—	—	—	—	—	0	0
Belize	—	—	—	—	—	29	29	—	—	—
Brazil	—	1	2,185	12	—	1,066	1,066	—	—	—
Canada	6,064	4,691	2,403	1,738	—	1,188	1,188	0	1,735	1,735
Cayman Islands	—	—	11	—	—	10	10	—	—	—
Chile	—	0	249	121	—	457	457	—	—	—
China	1,948	0	2,899	450	—	24	24	—	55	55
Colombia	—	0	—	1,565	—	1,002	1,002	—	0	0
Costa Rica	—	—	132	0	—	815	815	—	0	0
Denmark	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	0	650	16	—	536	536	—	—	—
Ecuador	—	—	1,027	—	—	558	558	—	—	—
Egypt	—	—	389	—	—	—	—	—	—	—
El Salvador	—	—	222	—	—	345	345	—	—	—
Finland	—	—	—	—	—	—	—	—	—	—
France	—	—	1,140	20	—	1	1	—	—	—
Germany	—	0	—	2	—	—	—	0	—	0
Ghana	—	—	40	—	—	—	—	—	—	—
Gibraltar	—	—	550	—	—	—	—	—	—	—
Greece	—	—	0	0	—	—	—	—	—	—
Guatemala	384	1	420	1	—	900	900	—	14	14
Honduras	—	1	323	—	—	116	116	—	24	24
Hong Kong	—	—	0	1	—	—	—	—	—	—
India	—	0	809	0	—	—	—	—	—	—
Indonesia	—	—	—	0	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—	—	—
Israel	—	—	—	—	—	—	—	—	0	0
Italy	649	—	—	—	—	—	—	—	—	—
Jamaica	—	—	63	—	—	3	3	—	—	—
Japan	—	0	8,908	1	—	1	1	—	0	0
Korea, South	—	—	2,226	10	—	1	1	—	0	0
Lebanon	—	—	—	—	—	—	—	—	—	—
Mexico	—	24	5,636	340	—	15,488	15,488	1	1,219	1,219
Montenegro	—	—	0	—	—	—	—	—	—	—
Morocco	—	—	264	3	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—
Netherlands	1,073	22	4,000	0	—	495	495	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	0	—	—	—	—	0	0
Nicaragua	400	0	—	—	—	—	—	—	—	—
Nigeria	—	—	—	0	—	—	—	—	—	—
Norway	—	—	777	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—	—	—
Panama	—	0	171	—	—	564	564	—	—	—
Peru	798	0	—	—	—	259	259	—	—	—
Philippines	—	0	—	0	—	—	—	—	—	—
Portugal	—	—	417	—	—	—	—	—	—	—
Puerto Rico	—	0	—	0	—	3	3	—	1	1
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	3	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	—	0	1,754	16	—	1,665	1,665	—	—	—
South Africa	—	—	0	0	—	526	526	—	—	—
Spain	—	—	275	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—	—	—
Taiwan	—	—	577	1	—	0	0	—	—	—
Thailand	—	0	—	0	—	—	—	—	—	—
Trinidad and Tobago	—	0	—	3	—	0	0	—	—	—
Turkey	—	—	547	—	—	—	—	—	—	—
United Arab Emirates	—	—	0	7	—	—	—	—	0	0
United Kingdom	1,250	0	542	—	—	0	0	—	0	0
Venezuela	—	—	—	300	—	1,292	1,292	—	—	—
Other	1,125	3	541	5	—	1,120	1,120	—	4	5
Total	13,691	4,749	40,171	4,618	—	28,750	28,750	1	3,052	3,053

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2016
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	—	0	—	—	—	1,092	—	—	—	1,092
Australia	—	0	0	—	—	—	0	—	—	—	0
Bahamas	—	0	0	—	—	—	158	20	210	—	388
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	7	0	1	—	—	—	0	307	—	—	307
Belize	—	—	—	—	—	—	10	—	—	—	10
Brazil	—	0	1,012	—	—	—	3,663	436	—	—	4,099
Canada	—	0	650	29	—	—	1	324	192	—	517
Cayman Islands	—	—	—	—	—	—	35	—	—	—	35
Chile	205	0	0	—	—	—	2,966	—	—	—	2,966
China	0	0	0	—	—	—	1	—	—	—	1
Colombia	—	—	13	—	—	—	579	—	—	—	579
Costa Rica	—	0	0	—	—	—	596	—	—	—	596
Denmark	—	—	—	—	—	—	—	—	—	—	—
Dominican Republic	—	—	0	—	—	—	612	116	191	—	919
Ecuador	—	—	—	—	—	—	1,055	—	212	—	1,268
Egypt	—	—	—	—	—	—	—	—	—	—	—
El Salvador	—	—	—	—	—	—	343	10	—	—	353
Finland	—	—	—	—	—	—	—	—	—	—	—
France	—	0	0	—	—	—	1,988	—	—	—	1,988
Germany	0	0	0	—	—	—	305	—	—	—	305
Ghana	—	—	0	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	824	331	—	—	1,155
Greece	—	—	—	—	—	—	—	—	—	—	—
Guatemala	—	—	—	—	—	—	188	751	—	—	940
Honduras	—	—	0	—	—	—	102	111	57	—	270
Hong Kong	—	0	—	—	—	—	—	—	—	—	—
India	—	0	56	—	—	—	1	—	—	—	1
Indonesia	—	0	—	—	—	—	—	—	—	—	—
Ireland	—	0	0	—	—	—	491	—	—	—	491
Israel	—	0	—	—	—	—	—	—	—	—	—
Italy	—	0	0	2	—	—	22	—	—	—	22
Jamaica	—	—	0	—	—	—	0	—	0	—	0
Japan	—	907	0	—	—	—	0	—	—	—	0
Korea, South	—	0	86	—	—	—	0	—	—	—	0
Lebanon	—	0	—	—	—	—	—	330	—	—	330
Mexico	573	0	44	35	—	—	8,590	1	16	—	8,607
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	—	0	0	—	—	—	1,562	516	85	—	2,163
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	1	—	—	57	—	—	—	57
Nigeria	—	—	143	—	—	—	—	—	—	—	—
Norway	—	—	52	—	—	—	3	—	—	—	3
Pakistan	—	—	—	—	—	—	—	—	—	—	—
Panama	—	0	0	—	—	—	722	579	—	—	1,301
Peru	—	0	144	13	—	—	1,976	—	—	—	1,976
Philippines	—	—	88	—	—	—	—	0	—	—	0
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	—	0	1	—	—	—	0	—	—	—	0
Romania	—	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	0	—	1	—	—	—	0	—	—	—	0
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	—	0	26	—	—	—	0	—	—	—	0
South Africa	—	—	—	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	320	—	—	—	320
Switzerland	—	—	—	0	—	—	—	—	—	—	—
Taiwan	—	0	—	—	—	—	—	—	—	—	—
Thailand	—	—	—	—	—	—	—	—	—	—	—
Trinidad and Tobago	—	—	—	—	—	—	0	—	—	—	0
Turkey	—	—	13	—	—	—	—	—	—	—	—
United Arab Emirates	—	0	1	—	—	—	0	—	—	—	0
United Kingdom	—	0	0	—	—	—	814	—	—	—	814
Venezuela	41	—	—	—	—	—	901	315	—	—	1,216
Other	1	3	3	—	—	—	1,539	787	1	—	2,326
Total	827	910	2,334	80	—	—	31,516	4,934	964	—	37,415

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2016
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	—	—	—	—	—	—	—	—
Australia	—	—	—	—	—	0	—	—
Bahamas	—	—	—	23	—	—	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	—	—	—	—	—	—	—	—
Belize	—	—	—	—	—	—	—	—
Brazil	—	—	—	2	—	—	—	—
Canada	4	—	—	859	—	1,474	—	—
Cayman Islands	—	—	—	—	—	—	—	—
Chile	1	—	—	300	—	—	—	—
China	0	—	—	—	—	—	—	—
Colombia	—	—	—	—	—	—	—	—
Costa Rica	0	—	—	150	—	0	—	—
Denmark	—	—	—	—	—	—	—	—
Dominican Republic	—	—	—	311	—	—	—	—
Ecuador	—	—	—	—	—	—	—	—
Egypt	—	—	—	—	—	0	—	—
El Salvador	—	—	—	46	—	—	—	—
Finland	—	—	—	651	—	—	—	—
France	—	—	—	—	—	—	—	—
Germany	0	—	—	—	—	—	—	—
Ghana	—	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	557	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	—	—	—	25	—	22	—	—
Honduras	0	—	—	32	—	202	—	—
Hong Kong	—	—	—	—	—	—	—	—
India	—	—	—	—	—	0	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	0	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—
Jamaica	—	—	—	57	—	190	—	—
Japan	0	—	—	—	—	—	—	—
Korea, South	—	—	—	0	—	0	—	—
Lebanon	—	—	—	—	—	—	—	—
Mexico	6	—	—	1,185	—	1,740	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	—	—	—	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	0	—	—	—	—	—	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	—	—	—	—	—	—	—	—
Nicaragua	—	—	—	—	—	—	—	—
Nigeria	—	—	—	—	—	—	—	—
Norway	—	—	—	—	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	1	—	—	325	—	—	—	—
Peru	0	—	—	386	—	0	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	0	—	—	—	—	—	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	—	—	—	—	—	—	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	—	—	—	—	—	2,957	—	—
South Africa	—	—	—	—	—	—	—	—
Spain	—	—	—	—	—	—	—	—
Switzerland	—	—	—	—	—	—	—	—
Taiwan	—	—	—	—	—	0	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	—	—	—	—	—	0	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	0	—	—	—	—	—	—	—
United Kingdom	—	—	—	615	—	0	—	—
Venezuela	—	—	—	—	—	—	—	—
Other	1	—	—	1,155	—	393	—	—
Total	13	—	—	6,122	—	7,535	—	—

See footnotes at end of table.

Table 51. Exports of Crude Oil and Petroleum Products by Destination, December 2016
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	0	0	0	33	—	1,133	1,133	—	37	37
Australia	1	154	0	5	0	164	164	—	5	5
Bahamas	—	—	1	2	—	724	724	—	23	23
Bahrain	—	—	—	2	—	2	2	—	0	0
Belgium	0	83	—	224	1	622	622	—	20	20
Belize	—	—	—	1	—	40	40	—	1	1
Brazil	0	1,035	0	278	1	9,692	9,692	—	313	313
Canada	81	766	126	254	2	16,519	22,583	196	533	728
Cayman Islands	—	—	—	2	—	58	58	—	2	2
Chile	0	—	64	67	0	4,432	4,432	—	143	143
China	12	484	2	38	1	3,966	5,913	63	128	191
Colombia	0	0	0	62	0	3,223	3,223	—	104	104
Costa Rica	0	—	—	19	0	1,713	1,713	—	55	55
Denmark	—	79	—	0	—	79	79	—	3	3
Dominican Republic	0	—	0	15	0	2,447	2,447	—	79	79
Ecuador	0	0	0	14	0	2,867	2,867	—	92	92
Egypt	—	—	—	0	—	389	389	—	13	13
El Salvador	0	325	—	24	—	1,314	1,314	—	42	42
Finland	—	—	—	0	—	651	651	—	21	21
France	0	16	—	110	—	3,276	3,276	—	106	106
Germany	2	0	0	86	0	397	397	—	13	13
Ghana	—	—	—	0	—	40	40	—	1	1
Gibraltar	—	—	—	—	—	2,261	2,261	—	73	73
Greece	—	243	—	0	—	243	243	—	8	8
Guatemala	—	164	—	29	—	2,516	2,900	12	81	94
Honduras	0	—	0	12	—	980	980	—	32	32
Hong Kong	0	—	—	1	0	2	2	—	0	0
India	1	3,073	0	163	0	4,105	4,105	—	132	132
Indonesia	0	0	—	1	0	1	1	—	0	0
Ireland	—	169	—	—	—	660	660	—	21	21
Israel	0	275	—	4	—	280	280	—	9	9
Italy	0	662	0	85	—	770	1,419	21	25	46
Jamaica	—	—	1	13	—	327	327	—	11	11
Japan	0	1,925	1	7	4	11,755	11,755	—	379	379
Korea, South	0	432	1	3	0	2,761	2,761	—	89	89
Lebanon	0	—	—	1	—	330	330	—	11	11
Mexico	14	1,765	107	399	5	37,189	37,189	—	1,200	1,200
Montenegro	—	—	—	—	—	0	0	—	0	0
Morocco	—	357	—	0	—	625	625	—	20	20
Mozambique	—	106	—	0	—	106	106	—	3	3
Netherlands	2	33	0	23	0	6,740	7,813	35	217	252
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	—	127	1	—	128	128	—	4	4
Nicaragua	—	211	—	6	—	276	675	13	9	22
Nigeria	—	—	—	1	—	144	144	—	5	5
Norway	—	42	0	1	—	875	875	—	28	28
Pakistan	—	—	—	0	0	0	0	—	0	0
Panama	—	—	—	8	—	2,370	2,370	—	76	76
Peru	0	—	—	68	—	2,846	3,645	26	92	118
Philippines	0	—	—	2	0	91	91	—	3	3
Portugal	0	—	—	0	—	417	417	—	13	13
Puerto Rico	0	—	0	10	—	16	16	—	1	1
Romania	—	0	—	0	—	0	0	—	0	0
Saudi Arabia	0	273	0	2	—	278	278	—	9	9
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	0	—	—	2	99	6,520	6,520	—	210	210
South Africa	0	156	0	105	—	787	787	—	25	25
Spain	1	1,718	—	0	0	2,314	2,314	—	75	75
Switzerland	—	—	—	0	—	0	0	—	0	0
Taiwan	0	—	0	4	0	583	583	—	19	19
Thailand	0	—	—	9	0	9	9	—	0	0
Trinidad and Tobago	0	—	0	20	—	24	24	—	1	1
Turkey	0	816	0	46	—	1,422	1,422	—	46	46
United Arab Emirates	0	—	—	36	0	45	45	—	1	1
United Kingdom	0	—	0	1	0	1,974	3,224	40	64	104
Venezuela	—	—	0	2	—	2,853	2,853	—	92	92
Other	5	581	19	53	4	6,189	7,315	36	200	236
Total	119	15,943	449	2,354	117	155,560	169,251	442	5,018	5,460

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2016
(Thousand Barrels)

Destination	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
Argentina	558	5	462	632	—	1,344	1,344	—	124	124
Australia	—	4	2,114	8	—	7	7	1	0	1
Bahamas	1,551	2	463	277	—	1,424	1,424	0	6	6
Bahrain	—	—	—	0	—	3	3	—	—	—
Belgium	—	6	1,569	143	—	0	0	0	269	269
Belize	—	0	—	—	—	245	245	—	32	32
Brazil	193	18	16,323	3,657	—	8,526	8,526	—	20	20
Canada	110,155	70,921	33,251	18,401	—	11,050	11,050	2	10,520	10,522
Cayman Islands	—	0	614	0	—	242	242	—	0	0
Chile	—	1	8,593	1,375	—	2,897	2,897	0	174	174
China	8,261	9	41,106	3,715	—	412	412	0	561	562
Colombia	3,514	8	2	16,377	—	9,321	9,321	0	419	420
Costa Rica	—	1	1,504	194	—	5,379	5,379	0	2,344	2,344
Denmark	—	0	—	—	—	—	—	—	0	0
Dominican Republic	298	2	9,763	208	—	5,115	5,115	0	100	101
Ecuador	—	0	9,504	27	—	8,353	8,353	0	1,295	1,295
Egypt	—	—	389	0	—	—	—	—	—	—
El Salvador	—	1	2,865	3	—	4,151	4,151	0	54	54
Finland	—	—	—	0	—	0	0	—	—	—
France	2,375	137	5,654	4,086	—	2	2	26	251	277
Germany	—	0	—	40	—	2	2	0	1	1
Ghana	—	—	2,110	0	—	—	—	—	—	—
Gibraltar	—	—	1,486	—	—	299	299	—	300	300
Greece	—	—	1	15	—	1	1	—	—	—
Guatemala	384	16	4,379	121	—	11,509	11,509	0	510	510
Honduras	—	4	3,170	10	—	4,054	4,054	—	173	173
Hong Kong	—	0	7	5	—	8	8	—	0	0
India	—	1	810	113	—	—	—	—	0	0
Indonesia	—	0	550	37	—	—	—	—	0	0
Ireland	—	—	—	—	—	1	1	—	0	0
Israel	770	0	4	14	—	13	13	—	0	0
Italy	7,802	—	—	2,282	—	0	0	—	—	—
Jamaica	—	1	728	1	—	17	17	—	0	0
Japan	2,885	0	55,291	1,098	—	11	11	2	2	4
Korea, South	3,894	1	30,662	1,212	—	7	7	0	1	1
Lebanon	—	—	—	—	—	—	—	—	—	0
Mexico	—	340	44,768	3,763	—	120,336	120,336	13	26,887	26,900
Montenegro	—	—	0	—	—	—	—	—	—	—
Morocco	—	—	3,799	56	—	0	0	—	—	—
Mozambique	—	—	693	—	—	—	—	—	—	—
Netherlands	13,967	385	25,052	6,436	—	3,055	3,055	—	1,310	1,310
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	—	—	3	0	—	1	1	1	0	1
Nicaragua	1,560	2	—	162	—	256	256	—	—	—
Nigeria	—	0	—	1	—	843	843	—	—	—
Norway	—	0	6,916	—	—	1	1	0	—	0
Pakistan	—	—	—	0	—	1	1	—	—	—
Panama	1,150	0	2,876	324	—	8,448	8,448	—	132	132
Peru	2,688	3	698	939	—	3,374	3,374	—	1,037	1,037
Philippines	—	0	1	5	—	0	0	—	0	0
Portugal	—	—	3,275	—	—	0	0	—	—	—
Puerto Rico	—	3	6	5	—	37	37	0	3	3
Romania	—	—	—	—	—	—	—	—	—	—
Saudi Arabia	—	0	9	45	—	500	500	0	0	0
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	3,870	3	15,766	1,739	—	4,343	4,343	—	0	0
South Africa	1,003	—	839	0	—	534	534	—	—	—
Spain	1,631	0	4,990	2,105	—	1,031	1,031	—	0	0
Switzerland	1,738	0	2,216	920	—	—	—	—	—	—
Taiwan	—	16	1,157	347	—	2	2	—	0	0
Thailand	728	0	0	10	—	—	—	—	0	0
Trinidad and Tobago	—	2	0	40	—	2	2	—	0	0
Turkey	—	2	3,289	267	—	0	0	—	—	—
United Arab Emirates	—	1	0	11	—	1,418	1,418	—	0	0
United Kingdom	5,903	0	5,337	321	—	13	13	0	0	0
Venezuela	—	1	154	9,032	—	5,617	5,617	—	938	938
Other	13,374	24	12,185	518	—	6,838	6,838	4	136	137
Total	190,252	71,920	367,403	81,097	—	231,043	231,043	49	47,599	47,648

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2016
(Thousand Barrels) — Continued

Destination	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
Argentina	—	0	1	—	—	—	16,227	378	300	—	16,904
Australia	0	0	1	0	—	—	320	315	—	—	635
Bahamas	70	6	10	—	—	—	2,266	213	2,458	—	4,938
Bahrain	—	—	0	—	—	—	—	—	—	—	—
Belgium	62	0	2	—	—	—	2,521	1,725	305	—	4,551
Belize	—	—	0	—	—	—	10	—	—	—	10
Brazil	0	0	6,358	0	—	—	42,326	2,337	913	—	45,577
Canada	—	4	6,175	1,642	—	—	3,344	6,689	1,929	—	11,962
Cayman Islands	34	—	0	—	—	—	608	—	—	—	608
Chile	2,512	0	11	0	—	—	33,049	2,167	—	—	35,216
China	45	1	4,266	0	—	—	11	0	—	—	11
Colombia	—	0	56	—	—	—	21,722	92	—	—	21,814
Costa Rica	22	0	2	—	—	—	8,072	—	0	—	8,073
Denmark	—	—	—	—	—	—	142	50	131	—	323
Dominican Republic	—	—	3	—	—	—	6,171	438	924	—	7,533
Ecuador	—	0	1	76	—	—	10,122	2,305	2,923	—	15,349
Egypt	—	—	1	—	—	—	440	—	—	—	440
El Salvador	—	—	0	—	—	—	601	1,673	464	—	2,738
Finland	—	—	—	—	—	—	—	—	—	—	—
France	11	2	0	—	—	—	21,261	—	—	—	21,261
Germany	0	0	2	—	—	—	1,633	—	—	—	1,633
Ghana	—	—	0	0	—	—	—	—	—	—	—
Gibraltar	—	—	—	—	—	—	12,911	1,435	653	—	14,998
Greece	—	—	0	—	—	—	0	—	—	—	0
Guatemala	—	0	0	—	—	—	5,887	6,004	96	—	11,988
Honduras	—	—	0	—	—	—	2,266	2,733	199	—	5,198
Hong Kong	—	0	0	—	—	—	1	—	—	—	1
India	0	1	1,993	—	—	—	2	0	0	—	2
Indonesia	—	0	0	0	—	—	3	—	—	—	3
Ireland	0	0	2	—	—	—	491	—	—	—	491
Israel	0	0	1	—	—	—	174	—	—	—	174
Italy	—	0	0	2	—	—	1,295	—	—	—	1,295
Jamaica	—	—	339	—	—	—	1,666	55	379	—	2,101
Japan	—	10,180	4	—	—	—	4	—	—	—	4
Korea, South	33	1	941	1	—	—	486	—	—	—	486
Lebanon	—	0	1	—	—	—	0	330	—	—	330
Mexico	8,721	12	690	144	—	—	65,422	1,194	70	—	66,686
Montenegro	—	—	—	—	—	—	—	—	—	—	—
Morocco	—	—	0	—	—	—	1,469	—	—	—	1,469
Mozambique	—	—	—	—	—	—	—	—	—	—	—
Netherlands	27	0	174	64	—	—	32,321	3,179	4,187	—	39,687
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—	—
New Zealand	—	0	0	—	—	—	0	—	—	—	0
Nicaragua	—	—	0	6	—	—	432	155	0	—	587
Nigeria	—	0	527	0	—	—	—	—	—	—	—
Norway	—	0	82	—	—	—	1,288	308	—	—	1,596
Pakistan	—	0	—	—	—	—	—	—	—	—	—
Panama	—	0	0	—	—	—	11,924	4,275	744	—	16,943
Peru	—	0	1,003	154	—	—	21,320	—	—	—	21,320
Philippines	—	0	1,292	—	—	—	—	2	—	—	2
Portugal	—	—	—	—	—	—	—	—	—	—	—
Puerto Rico	0	2	15	—	—	—	3	1	—	—	4
Romania	—	—	0	—	—	—	899	—	—	—	899
Saudi Arabia	0	0	98	—	—	—	0	—	—	—	0
Serbia	—	—	—	—	—	—	—	—	—	—	—
Singapore	0	7	250	0	—	—	1,472	88	1,814	—	3,374
South Africa	—	0	—	—	—	—	—	—	—	—	—
Spain	—	0	0	—	—	—	1,631	315	—	—	1,945
Switzerland	—	—	—	2	—	—	1,177	324	—	—	1,501
Taiwan	133	0	8	—	—	—	0	—	—	—	0
Thailand	—	0	—	—	—	—	0	—	—	—	0
Trinidad and Tobago	—	0	1	0	—	—	0	—	—	—	0
Turkey	—	0	35	—	—	—	1	—	—	—	1
United Arab Emirates	—	0	480	0	—	—	0	—	0	—	0
United Kingdom	—	1	10	—	—	—	14,999	350	—	—	15,349
Venezuela	3,751	—	—	—	—	—	5,939	597	275	—	6,811
Other	121	5	76	2	—	—	12,377	3,004	5,280	—	20,660
Total	15,542	10,222	24,911	2,093	—	—	368,706	42,731	24,044	—	435,481

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2016
(Thousand Barrels) — Continued

Destination	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
Argentina	4	—	—	917	—	0	—	—
Australia	0	—	—	0	—	0	—	—
Bahamas	0	—	—	825	—	3,478	—	—
Bahrain	—	—	—	—	—	—	—	—
Belgium	0	—	—	—	—	309	—	—
Belize	0	—	—	—	—	—	—	—
Brazil	0	—	—	911	—	—	—	—
Canada	2,433	—	—	13,548	—	11,863	—	—
Cayman Islands	0	—	—	154	—	0	—	—
Chile	5	—	—	2,317	—	—	—	—
China	5	—	—	1	—	386	—	—
Colombia	2	—	—	647	—	0	—	—
Costa Rica	1	—	—	1,675	—	216	—	—
Denmark	—	—	—	660	—	173	—	—
Dominican Republic	13	—	—	2,005	—	563	—	—
Ecuador	—	—	—	25	—	2,143	—	—
Egypt	0	—	—	—	—	4,539	—	—
El Salvador	0	—	—	199	—	578	—	—
Finland	39	—	—	2,087	—	—	—	—
France	—	—	—	30	—	—	—	—
Germany	0	—	—	1	—	2	—	—
Ghana	—	—	—	1	—	—	—	—
Gibraltar	—	—	—	1,992	—	3,743	—	—
Greece	—	—	—	—	—	—	—	—
Guatemala	138	—	—	1,188	—	1,050	—	—
Honduras	1	—	—	719	—	3,823	—	—
Hong Kong	0	—	—	0	—	0	—	—
India	0	—	—	—	—	156	—	—
Indonesia	—	—	—	—	—	—	—	—
Ireland	—	—	—	—	—	—	—	—
Israel	1	—	—	2,161	—	—	—	—
Italy	—	—	—	—	—	0	—	—
Jamaica	0	—	—	261	—	3,565	—	—
Japan	0	—	—	2	—	0	—	—
Korea, South	2	—	—	0	—	0	—	—
Lebanon	0	—	—	—	—	4,832	—	—
Mexico	102	—	—	12,051	—	10,928	—	—
Montenegro	—	—	—	—	—	—	—	—
Morocco	—	—	—	0	—	917	—	—
Mozambique	—	—	—	—	—	—	—	—
Netherlands	3	—	—	2,320	—	8,253	—	—
Netherlands Antilles	—	—	—	—	—	—	—	—
New Zealand	0	—	—	—	—	0	—	—
Nicaragua	0	—	—	0	—	170	—	—
Nigeria	306	—	—	181	—	—	—	—
Norway	210	—	—	300	—	—	—	—
Pakistan	—	—	—	—	—	—	—	—
Panama	2	—	—	5,408	—	4,382	—	—
Peru	0	—	—	1,692	—	330	—	—
Philippines	—	—	—	—	—	—	—	—
Portugal	—	—	—	—	—	—	—	—
Puerto Rico	1	—	—	0	—	90	—	—
Romania	—	—	—	—	—	—	—	—
Saudi Arabia	1	—	—	0	—	0	—	—
Serbia	—	—	—	—	—	—	—	—
Singapore	1	—	—	0	—	26,104	—	—
South Africa	1	—	—	10	—	331	—	—
Spain	—	—	—	550	—	1,304	—	—
Switzerland	—	—	—	0	—	—	—	—
Taiwan	—	—	—	0	—	0	—	—
Thailand	—	—	—	—	—	0	—	—
Trinidad and Tobago	0	—	—	1	—	0	—	—
Turkey	0	—	—	—	—	—	—	—
United Arab Emirates	2	—	—	0	—	2,668	—	—
United Kingdom	—	—	—	4,294	—	1,527	—	—
Venezuela	0	—	—	1	—	—	—	—
Other	11	—	—	5,376	—	6,966	—	—
Total	3,284	—	—	64,510	—	105,389	—	—

See footnotes at end of table.

Table 52. Year-to-Date Exports of Crude Oil and Petroleum Products by Destination, January-December 2016
(Thousand Barrels) — Continued

Destination	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products	Daily Average		
								Crude Oil	Products	Total
Argentina	2	1	2	421	3	20,822	21,381	2	57	58
Australia	5	2,412	124	170	5	5,485	5,485	—	15	15
Bahamas	0	—	23	37	0	11,561	13,112	4	32	36
Bahrain	0	—	—	7	—	10	10	—	0	0
Belgium	7	1,807	1	3,261	4	11,990	11,990	—	33	33
Belize	0	—	43	14	—	345	345	—	1	1
Brazil	2	11,486	2	2,670	9	95,559	95,752	1	261	262
Canada	938	8,140	2,362	3,049	46	206,308	316,463	301	564	865
Cayman Islands	—	—	7	23	—	1,684	1,684	—	5	5
Chile	4	1,005	594	831	1	55,535	55,535	—	152	152
China	66	14,228	95	818	7	65,731	73,992	23	180	202
Colombia	4	2	32	1,151	5	49,839	53,354	10	136	146
Costa Rica	1	559	157	222	1	20,349	20,349	—	56	56
Denmark	0	974	—	1	—	2,132	2,132	—	6	6
Dominican Republic	1	1,598	512	259	1	27,677	27,976	1	76	76
Ecuador	2	1,203	1	463	0	38,442	38,442	—	105	105
Egypt	1	3,980	—	42	0	9,392	9,392	—	26	26
El Salvador	1	472	—	274	0	11,336	11,336	—	31	31
Finland	—	—	0	16	—	2,142	2,142	—	6	6
France	15	1,031	0	722	0	33,230	35,605	6	91	97
Germany	19	2	11	799	4	2,516	2,516	—	7	7
Ghana	0	—	—	3	—	2,114	2,114	—	6	6
Gibraltar	—	—	—	249	—	23,068	23,068	—	63	63
Greece	0	3,426	—	3	—	3,446	3,446	—	9	9
Guatemala	0	1,455	26	228	—	32,608	32,992	1	89	90
Honduras	0	945	119	128	—	18,344	18,344	—	50	50
Hong Kong	4	0	0	30	2	58	58	—	0	0
India	13	47,570	11	524	2	51,195	51,195	—	140	140
Indonesia	1	0	9	41	1	643	643	—	2	2
Ireland	—	1,066	—	0	—	1,561	1,561	—	4	4
Israel	0	1,441	—	36	0	3,847	4,617	2	11	13
Italy	2	6,119	1	257	3	9,960	17,761	21	27	49
Jamaica	—	—	2	180	1	7,197	7,197	—	20	20
Japan	14	20,818	7	181	42	87,658	90,543	8	240	247
Korea, South	4	2,129	25	98	8	35,611	39,505	11	97	108
Lebanon	0	1,276	0	12	—	6,452	6,452	—	18	18
Mexico	124	18,982	1,769	5,186	257	321,759	321,759	—	879	879
Montenegro	—	—	—	—	0	0	0	—	0	0
Morocco	0	5,256	—	2	—	11,499	11,499	—	31	31
Mozambique	—	821	—	0	—	1,514	1,514	—	4	4
Netherlands	27	3,485	40	640	18	90,978	104,944	38	249	287
Netherlands Antilles	—	—	—	—	—	—	—	—	—	—
New Zealand	0	561	128	11	—	705	705	—	2	2
Nicaragua	—	211	23	190	—	1,608	3,168	4	4	9
Nigeria	—	209	0	381	—	2,448	2,448	—	7	7
Norway	1	910	3	5	—	10,024	10,024	—	27	27
Pakistan	0	439	2	11	0	453	453	—	1	1
Panama	0	645	278	227	0	39,665	40,815	3	108	112
Peru	1	696	0	805	1	32,053	34,741	7	88	95
Philippines	1	0	—	30	2	1,334	1,334	—	4	4
Portugal	0	413	—	1	—	3,691	3,691	—	10	10
Puerto Rico	1	—	2	147	0	318	318	—	1	1
Romania	0	784	—	1	—	1,685	1,685	—	5	5
Saudi Arabia	1	775	1	82	0	1,511	1,511	—	4	4
Serbia	—	—	—	—	—	—	—	—	—	—
Singapore	1	275	1	230	99	52,192	56,062	11	143	153
South Africa	1	527	1	576	0	2,820	3,823	3	8	10
Spain	4	11,757	215	12	0	23,913	25,544	4	65	70
Switzerland	0	—	1	1	0	4,640	6,378	5	13	17
Taiwan	12	533	5	51	2	2,267	2,267	—	6	6
Thailand	9	606	13	51	3	694	1,422	2	2	4
Trinidad and Tobago	0	5	0	137	0	189	189	—	1	1
Turkey	0	19,246	1	117	0	22,961	22,961	—	63	63
United Arab Emirates	0	428	1	315	0	5,326	5,326	—	15	15
United Kingdom	3	1,591	4	48	3	28,501	34,404	16	78	94
Venezuela	0	452	1	676	0	27,435	27,435	—	75	75
Other	7	5,480	683	1,341	12	60,420	73,792	36	159	198
Total	1,299	210,232	7,338	28,494	542	1,708,450	1,898,701	520	4,668	5,188

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2016
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	3,295	-	-33	90	-	-60	-60	-	34	34
Algeria	112	-	-	90	-	-	-	-	-	-
Angola	102	-	-	0	-	-	-	-	-	-
Ecuador	236	-	-33	-	-	-18	-18	-	-	-
Gabon	-	-	-	2	-	-	-	-	-	-
Indonesia	0	-	-	0	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	593	-	-	-	-	-	-	-	-	-
Kuwait	254	-	-	-	-	0	0	-	-	-
Libya	32	-	-	-	-	-	-	-	-	-
Nigeria	220	-	-	7	-	-	-	-	19	19
Qatar	-	-	-	0	-	-	-	-	-	-
Saudi Arabia	1,014	-	-	0	-	-	-	-	-	-
United Arab Emirates	14	-	0	0	-	-	-	-	0	0
Venezuela	718	-	-	-10	-	-42	-42	-	16	16
Non-OPEC	4,123	-153	-1,058	209	-	-839	-839	215	189	404
Argentina	6	0	-	-	-	0	0	-	-	-
Aruba	-	-	-17	-	-	-2	-2	-	-	-
Australia	-	-	0	0	-	0	0	-	0	0
Bahamas	-	0	-1	0	-	-9	-9	-	0	0
Bahrain	-	-	-	-	-	-	-	-	-	-
Belgium	-	0	-	20	-	-	-	-	11	11
Brazil	112	0	-70	0	-	-34	-34	-	10	10
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-
Canada	3,242	-151	124	-53	-	-29	-29	114	22	136
Chad	31	-	-	-	-	-	-	-	-	-
China	-63	0	-94	-15	-	-1	-1	-	-2	-2
Colombia	369	0	-	-50	-	-32	-32	-	13	13
Denmark	-	-	-	7	-	-	-	-	-	-
Dominican Republic	-	0	-21	-1	-	-17	-17	-	-	-
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	1	-	-	-	-	11	11
France	-	-	-37	-1	-	0	0	28	-	28
Germany	-	0	-	1	-	-	-	0	-	0
Guatemala	-3	0	-14	0	-	-29	-29	-	0	0
Honduras	-	0	-10	-	-	-4	-4	-	-1	-1
India	-	0	-26	33	-	-	-	-	10	10
Italy	-21	-	-	-	-	-	-	-	-	-
Japan	-	0	-287	0	-	0	0	-	0	0
Korea, South	-	-	-72	0	-	0	0	-	0	0
Latvia	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-
Mexico	515	-1	-181	-7	-	-500	-500	0	-34	-34
Netherlands	-35	-1	-129	7	-	-15	-15	17	26	44
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-25	-	-	-	-	-	11	11
Oman	13	-	-	0	-	-	-	-	0	0
Panama	-	0	-	-	-	-18	-18	-	-	-
Portugal	-	-	-13	-	-	11	11	-	-	-
Puerto Rico	-	0	-	0	-	0	0	-	0	0
Russia	24	-	-	238	-	6	6	2	39	41
Spain	-	-	-9	-	-	-	-	-	38	38
Sweden	-	-	-	-	-	-	-	-	2	2
Trinidad and Tobago	23	0	2	11	-	0	0	-	1	1
United Kingdom	-15	0	-17	5	-	1	1	54	29	83
Vietnam	-	-	-	-	-	0	0	-	-	-
Virgin Islands, U.S.	-	-	-	-	-	0	0	-	-	-
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-75	0	-155	13	-	-167	-167	0	3	2
Total	7,418	-153	-1,091	299	-	-899	-899	215	223	439
Persian Gulf²	1,875	-	0	0	-	0	0	-	0	0

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2016
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-1	0	-5	2	-	-	-63	-10	-2	-	-75
Algeria	-	-	-	-	-	-	-	-	-	-	-
Angola	-	-	0	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-34	-	-7	-	-41
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	0	-	2	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	-	-	-	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	0	-	-	-	0
Libya	-	-	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-5	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-	-	-
Saudi Arabia	0	-	0	-	-	-	0	-	-	-	0
United Arab Emirates	-	0	0	-	-	-	0	-	-	-	0
Venezuela	-1	-	-	-	-	-	-29	-10	5	-	-34
Non-OPEC	-18	-27	-71	81	18	-	-829	-148	11	1	-965
Argentina	1	-	0	61	-	-	-35	-	-	-	-35
Aruba	-	-	0	-	-	-	-1	-	-	-	-1
Australia	-	0	0	-	-	-	0	-	-	-	0
Bahamas	-	0	0	-	-	-	-5	-1	-7	-	-13
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	2	0	0	-	-	-	0	-10	-	-	-10
Brazil	-	2	-33	-	-	-	-118	-14	-	-	-132
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-	-	-	-
Canada	-	0	-21	11	-	-	91	-9	23	-	105
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	0	-	-	-	0	-	-	-	0
Colombia	-	-	0	-	-	-	-19	-	-	-	-19
Denmark	-	-	-	-	-	-	-	-	-	-	-
Dominican Republic	-	-	0	-	-	-	-20	-4	-6	-	-30
Equatorial Guinea	-	-	-	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	11	-	-	-	11
France	-	0	0	-	-	-	-64	-	-	-	-64
Germany	1	0	0	8	-	-	-10	-	-	-	-10
Guatemala	-	-	-	-	-	-	-6	-24	-	-	-30
Honduras	-	-	0	-	-	-	-3	-4	-2	-	-9
India	-	0	-2	-	-	-	13	-	-	1	13
Italy	-	0	0	0	-	-	-1	-	-	-	-1
Japan	-	-29	0	-	-	-	0	-	-	-	0
Korea, South	-	0	-3	3	-	-	0	-	-	-	0
Latvia	-	-	-	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-	-	-	-
Mexico	-18	0	-1	-1	-	-	-277	0	-1	-	-278
Netherlands	3	0	0	-	-	-	-50	-17	-3	-	-70
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	-	-2	-	-	-	0	-	-	-	0
Oman	-	-	-	-	-	-	0	-	-	-	0
Panama	-	0	0	-	-	-	-23	-19	-	-	-42
Portugal	-	-	-	-	-	-	10	-	-	-	10
Puerto Rico	-	0	0	-	-	-	0	-	-	-	0
Russia	-	-	-	-	-	-	-	0	-	-	0
Spain	-	-	-	-	-	-	-10	-	-	-	-10
Sweden	-	-	-	-	-	-	-3	-	-	-	-3
Trinidad and Tobago	-	-	-	-	-	-	0	-	-	-	0
United Kingdom	-	0	0	-	-	-	-26	-	-	-	-26
Vietnam	-	-	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	-	-	-	-	-28	-7	-	-	-35
Yemen	-	-	-	-	-	-	-	-	-	-	-
Other	-7	0	-9	-1	18	-	-255	-39	7	0	-286
Total	-20	-27	-75	83	18	-	-892	-158	9	1	-1,040
Persian Gulf²	0	0	0	-	-	-	0	-	-	-	0

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2016
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	0	-	-	2	-	32	-	-
Algeria	-	-	-	-	-	-	-	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	-	-	-	-	-
Gabon	-	-	-	-	-	-	-	-
Indonesia	-	-	-	-	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	-	-	-	-	-
Kuwait	-	-	-	-	-	-	-	-
Libya	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-
Saudi Arabia	-	-	-	0	-	-	-	-
United Arab Emirates	0	-	-	-	-	-	-	-
Venezuela	-	-	-	2	-	32	-	-
Non-OPEC	7	1	-	-69	10	-79	26	1
Argentina	-	-	-	-	-	-	-	-
Aruba	0	-	-	-2	-	-	-	-
Australia	-	-	-	-	-	0	-	-
Bahamas	-	-	-	-1	-	-	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	-	-	-	-	-	-	-	-
Brazil	-	-	-	0	1	2	-	-
Brunei	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	-
Canada	0	0	-	-23	1	-6	3	1
Chad	-	-	-	-	-	-	-	-
China	0	-	-	18	-	-	-	-
Colombia	-	-	-	0	-	13	-	-
Denmark	-	-	-	-	-	-	-	-
Dominican Republic	-	-	-	-10	-	-	-	-
Equatorial Guinea	-	-	-	-	-	0	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	-	-	-	-21	-	-	-	-
France	-	-	-	-	-	-	-	0
Germany	0	1	-	-	-	-	-	-
Guatemala	-	-	-	-1	-	-1	-	-
Honduras	0	-	-	-1	-	-7	-	-
India	-	-	-	38	-	0	-	-
Italy	-	-	-	-	-	-	-	-
Japan	7	-	-	20	3	-	1	-
Korea, South	-	-	-	48	4	0	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	-	-	-	-	-	-	-	-
Mexico	0	-	-	-38	-	14	10	-
Netherlands	0	-	-	-	-	4	0	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-
Panama	0	-	-	-10	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	-	-	-	-	-
Russia	-	-	-	-	-	8	-	-
Spain	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-
Trinidad and Tobago	-	-	-	-	-	22	-	-
United Kingdom	-	-	-	-20	-	0	6	-
Vietnam	-	-	-	0	-	-	-	-
Virgin Islands, U.S.	-	-	-	-10	-	-5	-	-
Yemen	-	-	-	-	-	-	-	-
Other	0	0	-	-56	1	-123	6	0
Total	7	1	-	-67	10	-47	26	1
Persian Gulf²	0	-	-	0	-	-	-	-

See footnotes at end of table.

Table 53. Net Imports of Crude Oil and Petroleum Products into the United States by Country, December 2016
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-5	13	9	0	3	3,299
Algeria	—	—	—	0	—	90	202
Angola	—	—	—	0	—	0	102
Ecuador	0	0	0	0	0	-92	144
Gabon	—	—	—	—	—	2	2
Indonesia	0	0	—	2	0	4	5
Iran	—	—	—	—	—	—	—
Iraq	—	—	—	0	—	0	593
Kuwait	—	0	0	0	—	0	254
Libya	—	—	—	0	—	0	32
Nigeria	—	—	—	0	—	21	241
Qatar	—	—	—	9	—	9	9
Saudi Arabia	0	-9	0	0	—	-9	1,005
United Arab Emirates	0	—	—	-1	0	-1	12
Venezuela	—	4	14	0	—	-21	697
Non-OPEC	2	-499	5	-51	-4	-3,067	1,056
Argentina	0	4	0	-1	—	29	35
Aruba	—	—	—	0	—	-22	-22
Australia	0	-5	0	0	0	-5	-5
Bahamas	—	—	0	0	—	-23	-23
Bahrain	—	—	—	1	—	1	1
Belgium	0	-3	—	-7	0	13	13
Brazil	0	-33	0	-9	0	-298	-186
Brunei	—	—	0	0	—	0	0
Cameroon	—	—	0	0	—	0	0
Canada	-1	-23	14	2	0	91	3,333
Chad	—	—	—	—	—	—	31
China	1	-16	0	-1	0	-108	-171
Colombia	0	1	0	-2	0	-76	293
Denmark	—	-3	—	0	—	4	4
Dominican Republic	0	—	0	0	0	-79	-79
Equatorial Guinea	—	—	—	0	—	0	0
Estonia	—	—	—	—	—	—	—
Finland	—	—	—	0	—	1	1
France	0	-1	—	-3	—	-77	-77
Germany	0	0	0	-2	0	-1	-1
Guatemala	—	-5	—	-1	—	-81	-85
Honduras	0	—	0	0	—	-32	-32
India	0	-99	0	-5	0	-38	-38
Italy	1	-21	0	-3	—	-24	-45
Japan	1	-62	0	0	0	-348	-348
Korea, South	0	-14	0	9	0	-24	-24
Latvia	0	—	—	—	—	0	0
Lithuania	—	—	—	0	—	0	0
Malaysia	0	—	—	0	—	0	0
Mexico	0	-57	-3	-13	0	-1,108	-594
Netherlands	0	-1	0	-1	0	-158	-192
Netherlands Antilles	—	—	—	—	—	—	—
Norway	—	-1	0	0	—	-18	-18
Oman	—	—	—	0	—	0	13
Panama	—	—	—	0	—	-76	-76
Portugal	0	—	—	0	—	8	8
Puerto Rico	0	—	0	0	—	-1	-1
Russia	—	—	—	0	—	294	317
Spain	0	-55	—	0	0	-37	-37
Sweden	0	0	—	0	—	-1	-1
Trinidad and Tobago	0	—	0	-1	—	36	59
United Kingdom	0	—	0	0	0	32	17
Vietnam	0	—	0	0	0	0	0
Virgin Islands, U.S.	—	—	0	0	—	-50	-50
Yemen	0	—	—	0	—	0	0
Other	0	-105	-6	-14	-4	-891	-964
Total	2	-504	19	-41	-4	-3,064	4,355
Persian Gulf²	0	-9	0	9	0	0	1,875

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2016
(Thousand Barrels per Day)

Country of Origin	Crude Oil ¹	Pentanes Plus	Liquefied Petroleum Gases	Unfinished Oils	Finished Motor Gasoline			Motor Gasoline Blending Components		
					Reformulated	Conventional	Total	Reformulated	Conventional	Total
OPEC	3,181	0	-26	119	-	-50	-50	0	37	37
Algeria	51	-	2	122	-	-4	-4	-	1	1
Angola	159	-	-	8	-	-	-	-	1	1
Ecuador	237	0	-26	0	-	-23	-23	0	-2	-2
Gabon	1	-	-	-	-	-	-	-	-	-
Indonesia	34	0	-2	0	-	-	-	-	1	1
Iran	-	-	-	-	-	-	-	-	-	-
Iraq	418	0	-	3	-	-	-	-	0	0
Kuwait	209	0	-	0	-	0	0	-	0	0
Libya	12	-	-	3	-	-	-	-	-	-
Nigeria	210	0	-	1	-	-2	-2	-	24	24
Qatar	-	-	-	0	-	0	0	-	-	-
Saudi Arabia	1,097	0	0	4	-	-1	-1	0	0	0
United Arab Emirates	11	0	0	1	-	-4	-4	-	0	0
Venezuela	741	0	0	-23	-	-15	-15	0	12	12
Non-OPEC	4,177	-188	-824	237	-	-522	-522	191	295	485
Argentina	11	0	-1	-1	-	-4	-4	-	0	0
Aruba	-	0	-26	0	-	-3	-3	-	0	0
Australia	4	0	-5	0	-	0	0	0	0	0
Bahamas	-4	0	-1	-1	-	-4	-4	0	0	0
Bahrain	-	-	-	0	-	0	0	-	-	-
Belgium	-	0	-4	41	-	4	4	1	12	13
Brazil	144	0	-45	-9	-	-22	-22	-	8	8
Brunei	-	-	-	-	-	-	-	-	-	-
Cameroon	-	0	-	2	-	0	0	-	-	-
Canada	2,955	-193	57	-47	-	1	1	89	31	120
Chad	64	0	-	-	-	-	-	-	-	-
China	-23	0	-112	-10	-	-1	-1	0	0	0
Colombia	433	0	0	-41	-	-25	-25	0	14	14
Denmark	2	0	-	1	-	0	0	0	0	1
Dominican Republic	-1	0	-27	-1	-	-14	-14	0	0	0
Equatorial Guinea	6	-	-	0	-	0	0	-	-	-
Estonia	-	-	-	-	-	-	-	-	0	0
Finland	-	-	-	1	-	1	1	1	20	20
France	-6	0	-15	1	-	1	1	20	3	22
Germany	-	0	-	2	-	0	0	0	0	1
Guatemala	6	0	-12	0	-	-31	-31	0	-1	-1
Honduras	-	0	-9	0	-	-11	-11	-	0	0
India	-	0	-2	7	-	0	0	1	54	56
Italy	-21	-	0	0	-	1	1	0	8	8
Japan	-8	0	-151	-2	-	0	0	0	1	1
Korea, South	-11	0	-83	-1	-	1	1	0	4	4
Latvia	-	-	-	-	-	-	-	-	1	1
Lithuania	-	-	-	-	-	0	0	-	2	2
Malaysia	5	0	-	7	-	-1	-1	-	1	1
Mexico	582	4	-122	-8	-	-329	-329	0	-60	-60
Netherlands	-37	-1	-68	-10	-	-4	-4	16	14	30
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-
Norway	35	0	-19	10	-	1	1	0	27	28
Oman	30	0	-	0	-	-	-	0	0	0
Panama	-3	0	-8	-1	-	-23	-23	-	0	0
Portugal	-	-	-9	-	-	4	4	7	13	20
Puerto Rico	-	0	0	0	-	0	0	0	0	0
Russia	38	-	-	289	-	1	1	2	47	49
Spain	-4	0	-14	-4	-	0	0	-	42	42
Sweden	-	-	0	3	-	1	1	0	2	2
Trinidad and Tobago	9	0	0	1	-	1	1	-	5	5
United Kingdom	3	0	-15	6	-	4	4	51	37	88
Vietnam	4	0	-	0	-	0	0	-	0	0
Virgin Islands, U.S.	-	0	0	0	-	0	0	0	0	0
Yemen	-	-	-	-	-	-	-	-	-	-
Other	-36	2	-133	2	-	-71	-71	3	10	10
Total	7,358	-188	-850	356	-	-572	-572	191	331	522
Persian Gulf²	1,736	0	0	8	-	-5	-5	0	0	0

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2016
(Thousand Barrels per Day) — Continued

Country of Origin	Oxygenates		Renewable Fuels				Distillate Fuel Oil				Total
	Methyl Tertiary Butyl Ether (MTBE)	Other Oxygenates	Fuel Ethanol	Biomass-Based Diesel	Other Renewable Diesel	Other Renewable Fuels	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	501 to 2000 ppm	Greater than 2000 ppm	
OPEC	-10	0	-3	6	-	-	-44	-9	-10	-	-63
Algeria	-	-	-	-	-	-	-1	-1	-2	-	-4
Angola	-	0	0	-	-	-	-	-	-	-	-
Ecuador	-	0	0	0	-	-	-28	-6	-8	-	-42
Gabon	-	-	-	-	-	-	-	-	-	-	-
Indonesia	-	0	0	7	-	-	0	-	-	-	0
Iran	-	-	-	-	-	-	-	-	-	-	-
Iraq	-	0	0	-	-	-	-	-	-	-	-
Kuwait	-	-	0	-	-	-	0	-	-	-	0
Libya	-	0	-	-	-	-	-	-	-1	-	-1
Nigeria	-	0	-1	0	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	1	-	1	-	2
Saudi Arabia	0	0	0	-	-	-	0	-	-	-	0
United Arab Emirates	1	0	-1	0	-	-	0	-	0	-	0
Venezuela	-10	-	-	-	-	-	-16	-2	0	-	-18
Non-OPEC	-25	-25	-63	33	14	-	-865	-103	-16	4	-980
Argentina	1	0	0	29	-	-	-44	-1	-1	-	-46
Aruba	-	-	0	-	-	-	-1	-	-	-	-1
Australia	0	0	0	0	-	-	-1	-1	-	-	-2
Bahamas	0	0	0	-	-	-	-6	-1	-7	-	-13
Bahrain	-	-	0	-	-	-	-	-	-	-	-
Belgium	1	0	0	-	-	-	-6	-5	-1	-	-12
Brazil	2	2	-15	0	-	-	-116	-6	-2	-	-124
Brunei	-	-	-	-	-	-	-	-	-	-	-
Cameroon	-	-	0	-	-	-	-	-	-	-	0
Canada	-	0	-17	2	-	-	63	-16	24	1	71
Chad	-	-	-	-	-	-	-	-	-	-	-
China	0	0	-12	0	-	-	2	0	-	-	2
Colombia	-	0	0	-	-	-	-59	1	0	1	-57
Denmark	-	-	-	-	-	-	0	0	0	-	-1
Dominican Republic	-	-	0	-	-	-	-17	-1	-3	-	-21
Equatorial Guinea	-	-	-	-	-	-	-	-	0	-	0
Estonia	-	-	-	-	-	-	-	-	-	-	-
Finland	-	-	-	-	-	-	1	-	-	-	1
France	0	0	0	-	-	-	-58	-	0	-	-58
Germany	1	0	0	2	-	-	-4	-	0	-	-4
Guatemala	-	0	0	-	-	-	-16	-16	0	-	-33
Honduras	-	-	0	-	-	-	-6	-7	-1	-	-14
India	0	0	-5	-	-	-	4	0	0	1	5
Italy	-	0	0	0	-	-	-4	-	1	-	-3
Japan	-	-28	0	-	-	-	3	-	-	-	3
Korea, South	0	0	-3	1	-	-	2	0	-	-	2
Latvia	-	-	-	-	-	-	0	-	-	-	0
Lithuania	-	-	-	-	-	-	-	-	-	-	-
Malaysia	0	0	-	-	-	-	0	-	-9	-	-9
Mexico	-24	0	-2	0	-	-	-179	-3	0	-	-182
Netherlands	3	0	0	0	-	-	-87	-9	-11	0	-107
Netherlands Antilles	-	-	-	-	-	-	-	-	-	-	-
Norway	-	0	0	-	-	-	-4	-1	-	-	-4
Oman	-	-	0	-	-	-	0	-	-	-	0
Panama	-	0	0	-	-	-	-33	-12	-2	-	-46
Portugal	-	-	-	-	-	-	1	-	-	-	1
Puerto Rico	0	0	0	-	-	-	0	0	-	-	0
Russia	1	-	-	0	-	-	9	0	2	-	11
Spain	-	0	0	-	-	-	-4	-1	-	-	-5
Sweden	-	-	0	-	-	-	0	-	2	-	2
Trinidad and Tobago	-	0	0	0	-	-	0	-	1	-	1
United Kingdom	0	0	0	-	-	-	-41	-1	-	-	-42
Vietnam	-	0	-	-	-	-	0	-	-	-	0
Virgin Islands, U.S.	-	-	0	-	-	-	-11	-1	-	-	-11
Yemen	-	-	0	-	-	-	-	-	-	-	-
Other	-10	1	-9	-1	14	-	-253	-22	-9	1	-284
Total	-34	-25	-66	39	14	-	-909	-112	-26	4	-1,043
Persian Gulf²	1	0	-2	0	-	-	1	-	1	-	2

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2016
(Thousand Barrels per Day) — Continued

Country of Origin	Kerosene	Finished Aviation Gasoline	Aviation Gasoline Blending Components	Kerosene-Type Jet Fuel	Special Naphthas	Residual Fuel Oil	Petrochemical Feedstocks	
							Naphtha	Other Oils
OPEC	-1	-	-	10	1	14	4	1
Algeria	-	-	-	-	-	4	3	-
Angola	-	-	-	-	-	-	-	-
Ecuador	-	-	-	0	-	-5	-	-
Gabon	-	-	-	-	-	0	-	-
Indonesia	-	-	-	0	-	-	-	-
Iran	-	-	-	-	-	-	-	-
Iraq	0	-	-	0	-	2	-	-
Kuwait	-	-	-	0	-	-	-	-
Libya	-	-	-	0	-	1	-	-
Nigeria	-1	-	-	0	-	3	-	1
Qatar	-	-	-	0	-	-	-	-
Saudi Arabia	0	-	-	1	1	0	1	-
United Arab Emirates	0	-	-	0	-	-7	-	-
Venezuela	0	-	-	10	-	17	-	-
Non-OPEC	-6	0	-	-39	12	-77	23	4
Argentina	0	-	-	-3	-	0	0	1
Aruba	0	-	-	-1	-	-1	-	-
Australia	0	-	-	0	-	0	-	-
Bahamas	0	-	-	-2	-	-8	-	-
Bahrain	-	-	-	-	-	-	-	-
Belgium	0	-	-	-	-	0	0	-
Brazil	0	-	-	-2	0	4	0	-
Brunei	0	-	-	0	-	-	-	-
Cameroon	-	-	-	-	-	1	-	-
Canada	-7	0	-	-28	4	7	3	2
Chad	-	-	-	-	-	-	-	-
China	1	-	-	15	-	-1	-	-
Colombia	0	-	-	-2	-	19	-	-
Denmark	-	-	-	-2	-	0	-	-
Dominican Republic	0	-	-	-5	-	-2	-	-
Equatorial Guinea	-	-	-	-	-	0	-	-
Estonia	-	-	-	-	-	-	-	-
Finland	0	-	-	-6	-	0	-	-
France	-	-	-	0	-	1	-	1
Germany	0	0	-	0	-	0	-	-
Guatemala	0	-	-	-3	-	-3	-	-
Honduras	0	-	-	-2	-	-10	-	-
India	0	-	-	20	-	0	-	-
Italy	-	-	-	-	0	1	-	-
Japan	2	-	-	12	3	0	1	-
Korea, South	0	-	-	77	4	0	2	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malaysia	0	-	-	0	-	-1	-	-
Mexico	0	-	-	-33	-	22	13	-
Netherlands	0	0	-	-6	0	-15	1	-
Netherlands Antilles	-	-	-	-	-	-	-	-
Norway	-1	-	-	-1	-	2	-	-
Oman	-	-	-	-	-	0	-	-
Panama	0	-	-	-15	-	-12	-	-
Portugal	-	-	-	-	-	-	-	-
Puerto Rico	0	-	-	0	-	0	-	-
Russia	0	-	-	0	-	43	-	-
Spain	-	-	-	-2	-	-3	-	-
Sweden	-	-	-	-3	-	2	-	-
Trinidad and Tobago	0	-	-	0	-	11	-	-
United Kingdom	-	-	-	-12	-	-4	1	-
Vietnam	0	-	-	0	-	-	-	-
Virgin Islands, U.S.	0	-	-	-1	-	-6	-	-
Yemen	-	-	-	-	-	-	-	-
Other	-1	0	-	-34	1	-124	2	0
Total	-7	0	-	-29	14	-63	26	5
Persian Gulf²	0	-	-	1	1	-5	1	-

See footnotes at end of table.

Table 54. Year-to-Date Net Imports of Crude Oil and Petroleum Products into the United States by Country, January-December 2016
(Thousand Barrels per Day) — Continued

Country of Origin	Waxes	Petroleum Coke	Asphalt and Road Oil	Lubricants	Miscellaneous Products	Total Products	Total Crude Oil and Products
OPEC	0	-5	7	5	0	48	3,228
Algeria	0	—	0	0	—	123	174
Angola	—	-1	0	0	—	8	167
Ecuador	0	-3	0	-1	0	-103	134
Gabon	—	0	—	0	—	—	—
Indonesia	0	0	0	2	0	8	41
Iran	—	—	—	—	—	—	—
Iraq	—	—	—	0	0	4	423
Kuwait	0	0	0	0	—	1	209
Libya	—	—	—	0	—	4	15
Nigeria	—	-1	0	-1	—	22	232
Qatar	—	0	—	9	—	11	11
Saudi Arabia	0	-2	0	0	0	3	1,100
United Arab Emirates	0	-1	0	-1	0	-12	-1
Venezuela	0	3	7	-2	0	-20	721
Non-OPEC	1	-560	10	-45	-1	-2,534	1,643
Argentina	0	1	0	-1	0	-23	-13
Aruba	—	—	0	—	—	-34	-34
Australia	0	-7	0	0	0	-15	-10
Bahamas	0	—	0	0	0	-30	-35
Bahrain	0	—	—	2	—	2	2
Belgium	0	-5	0	-8	0	29	29
Brazil	0	-31	0	-7	0	-240	-95
Brunei	—	0	0	0	—	0	0
Cameroon	0	—	0	0	—	3	3
Canada	-1	-21	20	3	0	-21	2,933
Chad	—	—	—	0	—	0	64
China	2	-39	0	-2	0	-158	-181
Colombia	0	1	0	-3	0	-95	338
Denmark	—	-3	—	0	—	-4	-3
Dominican Republic	0	-4	-1	-1	0	-75	-76
Equatorial Guinea	—	—	—	0	—	0	6
Estonia	0	—	—	0	—	0	0
Finland	—	—	0	0	—	17	17
France	0	-3	0	-2	0	-53	-59
Germany	0	0	0	-2	0	-1	-1
Guatemala	0	-4	0	-1	—	-89	-83
Honduras	0	-3	0	0	—	-50	-50
India	0	-130	0	-1	0	-51	-51
Italy	0	-17	0	0	0	-9	-31
Japan	0	-57	0	0	0	-217	-225
Korea, South	0	-6	0	10	0	9	-2
Latvia	0	—	—	0	0	1	1
Lithuania	0	—	—	0	—	2	2
Malaysia	0	0	0	0	0	-2	2
Mexico	0	-52	-5	-14	-1	-792	-210
Netherlands	0	-10	0	-2	0	-190	-227
Netherlands Antilles	—	—	0	—	—	0	0
Norway	0	-2	0	0	—	13	49
Oman	—	-1	0	0	—	-1	29
Panama	0	-2	-1	-1	0	-108	-111
Portugal	0	-1	—	0	—	15	15
Puerto Rico	0	—	0	0	0	-1	-1
Russia	0	0	0	1	—	395	433
Spain	0	-32	1	0	0	-16	-21
Sweden	0	0	—	0	0	6	6
Trinidad and Tobago	0	0	0	0	0	19	28
United Kingdom	0	-3	0	0	0	25	28
Vietnam	0	0	0	0	0	-1	3
Virgin Islands, U.S.	—	—	0	-2	—	-20	-20
Yemen	0	—	—	0	—	0	0
Other	0	-129	-4	-14	0	-774	-806
Total	1	-565	16	-39	-1	-2,487	4,871
Persian Gulf²	0	-3	0	10	0	8	1,744

— = No Data Reported.

¹ On December 18, 2015, the U.S. enacted legislation authorizing the export of U.S. crude oil without a license. Exports to embargoed or sanctioned countries continue to require authorization.

² Includes Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

Note: Totals may not equal sum of components due to independent rounding.

Sources: U.S. Census Bureau and EIA estimates.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2016
(Thousand Barrels)

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Crude Oil	12,245	151,279	940,865	23,320	51,705	1,179,414
Refinery	8,847	13,872	42,318	2,605	25,114	92,756
Tank Farms and Pipelines (Includes Cushing, OK)	3,398	137,407	203,465	20,715	22,557	387,542
Cushing, Oklahoma	—	67,740	—	—	—	67,740
Leases ¹	—	—	—	—	—	—
Strategic Petroleum Reserve ²	—	—	695,082	—	—	695,082
Alaskan In Transit	—	—	—	—	4,034	4,034
Total Stocks, All Oils (excluding Crude Oil)³	183,636	175,897	383,673	21,206	86,830	851,242
Refinery	15,979	48,441	123,084	10,937	47,861	246,302
Bulk Terminal	136,826	89,504	204,811	6,186	33,795	471,122
Pipeline	30,573	36,477	51,759	3,959	4,919	127,687
Natural Gas Processing Plant	258	1,475	4,019	124	255	6,131
Pentanes Plus	183	9,292	15,218	304	35	25,032
Refinery	—	302	615	12	2	931
Bulk Terminal	113	1,420	11,946	4	6	13,489
Pipeline	10	7,383	2,426	252	—	10,071
Natural Gas Processing Plant	60	187	231	36	27	541
Liquefied Petroleum Gases	7,584	38,635	124,811	3,041	4,363	178,434
Refinery	844	4,594	8,914	379	1,374	16,105
Bulk Terminal	5,810	24,490	98,568	945	2,761	132,574
Pipeline	732	8,263	13,541	1,629	—	24,165
Natural Gas Processing Plant	198	1,288	3,788	88	228	5,590
Ethane/Ethylene	440	5,681	47,448	436	—	54,005
Refinery	—	—	118	—	—	118
Bulk Terminal	253	3,029	41,523	—	—	44,805
Ethylene	—	—	—	—	—	—
Pipeline	187	2,472	5,065	436	—	8,160
Natural Gas Processing Plant	—	180	742	—	—	922
Propane/Propylene	6,014	22,134	53,020	1,353	1,575	84,096
Refinery	303	1,760	2,243	32	103	4,441
Bulk Terminal	5,045	15,527	42,376	510	1,457	64,915
Nonfuel Use	—	—	4,686	—	—	4,686
Pipeline	528	4,138	6,406	762	—	11,834
Natural Gas Processing Plant	138	709	1,995	49	15	2,906
Normal Butane/Butylene	972	8,918	19,008	994	2,316	32,208
Refinery	409	2,293	5,134	247	826	8,909
Bulk Terminal	512	5,385	11,888	434	1,304	19,523
Refinery Grade Butane	22	1,717	3,615	169	—	5,523
Pipeline	6	1,004	1,409	283	—	2,702
Natural Gas Processing Plant	45	236	577	30	186	1,074
Isobutane/Isobutylene	158	1,902	5,335	258	472	8,125
Refinery	132	541	1,419	100	445	2,637
Bulk Terminal	—	549	2,781	1	—	3,331
Pipeline	11	649	661	148	—	1,469
Natural Gas Processing Plant	15	163	474	9	27	688
Other Hydrocarbons	—	17	—	—	—	17
Refinery	—	17	—	—	—	17
Oxygenates (excluding Fuel Ethanol)	—	—	1,477	—	—	1,477
Refinery	—	—	81	—	—	81
Bulk Terminal	—	—	1,396	—	—	1,396
Pipeline	—	—	—	—	—	—
MTBE	—	—	1,116	—	—	1,116
Refinery	—	—	81	—	—	81
Bulk Terminal ⁴	—	—	1,035	—	—	1,035
Pipeline	—	—	—	—	—	—
Other Oxygenates⁵	—	—	361	—	—	361
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	361	—	—	361
Pipeline	—	—	—	—	—	—
Renewable Fuels (including Fuel Ethanol)	9,111	7,783	5,596	367	4,050	26,907
Refinery	192	129	357	123	362	1,163
Bulk Terminal	8,880	7,654	5,239	240	3,688	25,701
Pipeline	39	—	—	4	—	43
Fuel Ethanol³	6,286	7,094	3,325	353	2,473	19,531
Refinery	187	94	170	114	31	596
Bulk Terminal	6,060	7,000	3,155	235	2,442	18,892
Pipeline	39	—	—	4	—	43
Renewable Diesel Fuel	2,825	689	2,266	14	1,539	7,333
Refinery	5	35	187	9	293	529
Bulk Terminal	2,820	654	2,079	5	1,246	6,804
Pipeline	—	—	—	—	—	—
Other Renewable Fuels	—	—	5	—	38	43
Refinery	—	—	—	—	38	38
Bulk Terminal	—	—	5	—	—	5
Pipeline	—	—	—	—	—	—

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2016
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Unfinished Oils	4,472	13,137	41,572	2,829	18,572	80,582
Naphthas and Lighter	1,326	3,002	11,770	530	3,245	19,873
Refinery	1,252	2,976	10,157	530	3,180	18,095
Bulk Terminal	74	26	1,613	—	65	1,778
Kerosene and Light Gas Oils	755	2,891	6,991	546	3,314	14,497
Refinery	754	2,827	6,896	546	3,100	14,123
Bulk Terminal	1	64	95	—	214	374
Heavy Gas Oils	1,780	4,673	18,154	1,312	9,434	35,353
Refinery	1,767	4,663	16,195	1,312	9,323	33,260
Bulk Terminal	13	10	1,959	—	111	2,093
Residuum	611	2,571	4,657	441	2,579	10,859
Refinery	611	2,293	4,657	441	2,579	10,581
Bulk Terminal	—	278	—	—	—	278
Motor Gasoline Blending Components³	59,527	45,600	71,198	5,672	27,116	209,113
Refinery	4,980	12,972	27,351	3,213	12,962	61,478
Bulk Terminal	42,922	22,879	27,953	1,622	11,538	106,914
Pipeline	11,625	9,749	15,894	837	2,616	40,721
Reformulated - RBOB	19,623	6,547	11,655	—	14,324	52,149
Refinery	1,695	1,200	1,607	—	5,158	9,660
Bulk Terminal	13,985	3,644	5,881	—	7,439	30,949
Pipeline	3,943	1,703	4,167	—	1,727	11,540
Conventional	39,904	39,053	59,543	5,672	12,792	156,964
Refinery	3,285	11,772	25,744	3,213	7,804	51,818
Bulk Terminal	28,937	19,235	22,072	1,622	4,099	75,965
Pipeline	7,682	8,046	11,727	837	889	29,181
CBOB	27,352	31,500	32,447	3,847	6,301	101,447
Refinery	631	5,852	11,590	1,390	1,947	21,410
Bulk Terminal	19,039	18,126	9,253	1,620	3,469	51,507
Pipeline	7,682	7,522	11,604	837	885	28,530
GTAB	1,246	—	—	—	—	1,246
Refinery	—	—	—	—	—	—
Bulk Terminal	1,246	—	—	—	—	1,246
Pipeline	—	—	—	—	—	—
Other	11,306	7,553	27,096	1,825	6,491	54,271
Refinery	2,654	5,920	14,154	1,823	5,857	30,408
Bulk Terminal	8,652	1,109	12,819	2	630	23,212
Pipeline	—	524	123	—	4	651
Aviation Gasoline Blending Components	—	—	9	—	—	9
Refinery	—	—	9	—	—	9
Bulk Terminal	—	—	—	—	—	—
Finished Motor Gasoline	5,492	7,247	11,474	2,238	2,159	28,610
Refinery	31	1,708	4,836	1,060	700	8,335
Bulk Terminal	1,812	2,935	3,306	881	1,331	10,265
Pipeline	3,649	2,604	3,332	297	128	10,010
Reformulated	31	—	—	—	16	47
Refinery	—	—	—	—	16	16
Bulk Terminal	31	—	—	—	—	31
Pipeline	—	—	—	—	—	—
Reformulated (Blended with Fuel Ethanol)	31	—	—	—	16	47
Refinery	—	—	—	—	16	16
Bulk Terminal	31	—	—	—	—	31
Pipeline	—	—	—	—	—	—
Reformulated (Other)	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional	5,461	7,247	11,474	2,238	2,143	28,563
Refinery	31	1,708	4,836	1,060	684	8,319
Bulk Terminal	1,781	2,935	3,306	881	1,331	10,234
Pipeline	3,649	2,604	3,332	297	128	10,010
Conventional (Blended with Fuel Ethanol)	47	79	—	48	1	175
Refinery	—	—	—	45	—	45
Bulk Terminal	47	79	—	3	1	130
Pipeline	—	—	—	—	—	—
Ed55 and Lower	47	79	—	48	1	175
Refinery	—	—	—	45	—	45
Bulk Terminal	47	79	—	3	1	130
Pipeline	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Refinery	—	—	—	—	—	—
Bulk Terminal	—	—	—	—	—	—
Pipeline	—	—	—	—	—	—
Conventional (Other)	5,414	7,168	11,474	2,190	2,142	28,388
Refinery	31	1,708	4,836	1,015	684	8,274
Bulk Terminal	1,734	2,856	3,306	878	1,330	10,104
Pipeline	3,649	2,604	3,332	297	128	10,010

See footnotes at end of table.

Table 55. Stocks of Crude Oil and Petroleum Products by PAD District, December 2016
(Thousand Barrels) — Continued

Commodity	PAD Districts					U.S. Total
	1	2	3	4	5	
Finished Aviation Gasoline	164	211	417	9	193	994
Refinery	—	92	353	9	111	565
Bulk Terminal	164	119	64	—	82	429
Pipeline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	11,078	6,829	15,066	600	9,203	42,776
Refinery	376	1,722	5,971	267	3,751	12,087
Bulk Terminal	5,753	3,176	4,891	241	4,621	18,682
Pipeline	4,949	1,931	4,204	92	831	12,007
Kerosene	1,771	196	246	1	47	2,261
Refinery	117	173	104	1	6	401
Bulk Terminal	1,604	23	129	—	41	1,797
Pipeline	50	—	13	—	—	63
Distillate Fuel Oil⁵	66,951	32,562	48,792	4,316	12,835	165,456
Refinery	2,374	6,882	15,365	1,987	5,239	31,847
Bulk Terminal	55,058	19,133	21,083	1,481	6,258	103,013
Pipeline	9,519	6,547	12,344	848	1,338	30,596
15 ppm sulfur and Under	53,457	31,288	42,383	4,042	11,850	143,020
Refinery	1,578	5,911	13,200	1,761	4,492	26,942
Bulk Terminal	44,242	19,009	17,871	1,435	6,115	88,672
Pipeline	7,637	6,368	11,312	846	1,243	27,406
Greater than 15 ppm to 500 ppm sulfur	6,388	450	1,497	220	267	8,822
Refinery	129	223	647	172	237	1,408
Bulk Terminal	6,213	91	587	46	3	6,940
Pipeline	46	136	263	2	27	474
Greater than 500 ppm sulfur	7,106	824	4,912	54	718	13,614
Refinery	667	748	1,518	54	510	3,497
Bulk Terminal	4,603	33	2,625	—	140	7,401
Pipeline	1,836	43	769	—	68	2,716
Residual Fuel Oil⁶	10,996	1,489	24,356	224	4,478	41,543
Refinery	689	1,235	3,839	224	2,654	8,641
Bulk Terminal	10,307	254	20,517	—	1,818	32,896
Pipeline	—	—	—	—	6	6
Less than 0.31% Sulfur	1,000	32	2,271	34	134	3,471
Refinery	166	26	197	34	—	423
Bulk Terminal	834	6	2,074	—	134	3,048
0.31% to 1.00% Sulfur	2,643	287	5,289	4	849	9,072
Refinery	80	157	241	4	536	1,018
Bulk Terminal	2,563	130	5,048	—	313	8,054
Greater than 1.00% Percent Sulfur	7,353	1,170	16,796	186	3,489	28,994
Refinery	443	1,052	3,401	186	2,118	7,200
Bulk Terminal	6,910	118	13,395	—	1,371	21,794
Petrochemical Feedstocks	159	533	2,547	—	1	3,240
Refinery	159	533	2,547	—	1	3,240
Naphtha for Petrochemical Feedstock Use	159	391	1,460	—	1	2,011
Other Oils for Petrochemical Feedstock Use	—	142	1,087	—	—	1,229
Special Naphthas	22	161	1,006	—	29	1,218
Refinery	10	85	837	—	29	961
Bulk Terminal	12	76	169	—	—	257
Lubricants	1,208	740	9,829	—	598	12,375
Refinery	637	264	6,404	—	402	7,707
Bulk Terminal	571	476	3,425	—	196	4,668
Waxes	377	44	250	—	—	671
Refinery	377	44	250	—	—	671
Petroleum Coke	—	1,078	4,548	144	1,213	6,983
Refinery	—	1,078	4,548	144	1,213	6,983
Asphalt and Road Oil	4,504	10,220	4,837	1,444	1,861	22,866
Refinery	772	3,729	2,380	672	796	8,349
Bulk Terminal	3,732	6,491	2,457	772	1,065	14,517
Miscellaneous Products	37	123	424	17	77	678
Refinery	37	123	418	17	77	672
Bulk Terminal	—	—	1	—	—	1
Pipeline	—	—	5	—	—	5
Total Stocks, All Oils	195,881	327,176	1,324,538	44,526	138,535	2,030,656

— = No Data Reported.

¹ Lease stocks were excluded from crude oil stocks beginning with data for July 2016 (see explanatory notes).

² Crude oil stocks in the Strategic Petroleum Reserve include non-U.S. stocks held under foreign or commercial storage agreements.

³ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Includes stocks held at fuel ethanol production facilities.

⁴ Includes stocks held by merchant producers.

⁵ Includes ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), tertiary butyl alcohol (TBA), and other aliphatic alcohols and ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

⁶ Sulfur content not available for stocks held by pipelines.

Note: Stocks are reported as of the last day of the month.

Sources: Energy Information Administration (EIA) Forms EIA-22M "Monthly Biodiesel Production Survey", EIA-810, "Monthly Refinery Report," EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, December 2016
(Thousand Barrels)

Commodity	Motor Gasoline			Motor Gasoline Blending Components ¹			Kerosene
	Reformulated	Conventional	Total	Reformulated	Conventional	Total	
PAD District 1	31	1,812	1,843	15,680	32,222	47,902	1,721
Connecticut	—	—	—	1,488	—	1,488	47
Delaware	—	—	—	795	441	1,236	100
District of Columbia	—	—	—	—	—	—	—
Florida	—	630	630	—	5,098	5,098	—
Georgia	—	292	292	—	2,748	2,748	—
Maine	—	—	—	306	253	559	151
Maryland	—	—	—	1,321	95	1,416	100
Massachusetts	5	—	5	1,345	144	1,489	13
New Hampshire	—	—	—	—	—	—	24
New Jersey	—	178	178	5,741	11,164	16,905	24
New York	26	—	26	990	2,104	3,094	599
North Carolina	—	232	232	—	2,528	2,528	400
Pennsylvania	—	14	14	1,296	4,316	5,612	167
Rhode Island	—	—	—	673	—	673	—
South Carolina	—	228	228	—	1,580	1,580	35
Vermont	—	47	47	—	—	—	4
Virginia	—	150	150	1,725	1,593	3,318	57
West Virginia	—	41	41	—	158	158	—
PAD District 2	—	4,643	4,643	4,844	31,007	35,851	196
Illinois	—	475	475	2,324	4,360	6,684	166
Indiana	—	295	295	1,044	3,973	5,017	1
Iowa	—	153	153	—	1,689	1,689	—
Kansas	—	321	321	—	3,010	3,010	20
Kentucky	—	299	299	386	1,106	1,492	4
Michigan	—	319	319	72	2,844	2,916	—
Minnesota	—	359	359	138	1,928	2,066	—
Missouri	—	261	261	368	508	876	—
Nebraska	—	134	134	—	780	780	—
North Dakota	—	215	215	—	702	702	—
Ohio	—	1,067	1,067	11	3,882	3,893	—
Oklahoma	—	319	319	—	2,496	2,496	5
South Dakota	—	73	73	—	456	456	—
Tennessee	—	182	182	—	2,103	2,103	—
Wisconsin	—	171	171	501	1,170	1,671	—
PAD District 3	—	8,142	8,142	7,488	47,816	55,304	233
Alabama	—	148	148	—	1,371	1,371	6
Arkansas	—	176	176	—	791	791	—
Louisiana	—	1,488	1,488	261	12,243	12,504	63
Mississippi	—	1,239	1,239	204	2,100	2,304	—
New Mexico	—	98	98	—	547	547	—
Texas	—	4,993	4,993	7,023	30,764	37,787	164
PAD District 4	—	1,941	1,941	—	4,835	4,835	1
Colorado	—	590	590	—	1,146	1,146	—
Idaho	—	287	287	—	134	134	—
Montana	—	588	588	—	1,495	1,495	—
Utah	—	118	118	—	1,259	1,259	1
Wyoming	—	358	358	—	801	801	—
PAD District 5	16	2,015	2,031	12,597	11,903	24,500	47
Alaska	—	769	769	—	—	—	41
Arizona	—	109	109	642	351	993	—
California	16	294	310	11,832	5,986	17,818	6
Hawaii	—	2	2	—	709	709	—
Nevada	—	135	135	16	267	283	—
Oregon	—	94	94	—	1,162	1,162	—
Washington	—	612	612	107	3,428	3,535	—
U.S. Total	47	18,553	18,600	40,609	127,783	168,392	2,198

See footnotes at end of table.

Table 56. Refinery, Bulk Terminal, and Natural Gas Plant Stocks of Selected Petroleum Products by PAD District and State, December 2016
(Thousand Barrels) — Continued

Commodity	Distillate Fuel Oil ¹				Residual Fuel Oil	Propane/ Propylene
	15 ppm sulfur and under	Greater than 15 ppm to 500 ppm sulfur	Greater than 500 ppm	Total		
PAD District 1	45,820	6,342	5,270	57,432	10,996	5,486
Connecticut	2,689	2,529	99	5,317	31	—
Delaware	429	22	44	495	841	24
District of Columbia	—	—	—	—	—	—
Florida	2,668	70	—	2,738	2,049	582
Georgia	1,372	—	—	1,372	415	14
Maine	1,041	2	669	1,712	124	—
Maryland	3,938	285	—	4,223	795	2
Massachusetts	897	735	629	2,261	156	—
New Hampshire	295	—	347	642	33	429
New Jersey	16,328	438	875	17,641	3,376	255
New York	6,748	879	908	8,535	1,791	1,264
North Carolina	1,328	—	17	1,345	—	443
Pennsylvania	4,148	261	1,024	5,433	603	1,442
Rhode Island	555	911	82	1,548	58	—
South Carolina	847	—	—	847	340	946
Vermont	46	—	33	79	—	—
Virginia	2,360	196	543	3,099	384	5
West Virginia	131	14	—	145	—	80
PAD District 2	24,920	314	781	26,015	1,489	17,996
Illinois	3,363	—	—	3,363	605	962
Indiana	3,050	—	97	3,147	72	264
Iowa	2,596	—	—	2,596	2	577
Kansas	2,651	—	—	2,651	22	9,247
Kentucky	1,033	—	2	1,035	209	356
Michigan	1,387	63	—	1,450	125	4,997
Minnesota	1,805	6	427	2,238	122	207
Missouri	903	22	5	930	55	148
Nebraska	1,003	—	—	1,003	—	384
North Dakota	859	1	—	860	55	54
Ohio	1,936	—	69	2,005	125	664
Oklahoma	1,295	59	146	1,500	25	74
South Dakota	675	—	—	675	—	14
Tennessee	924	—	—	924	48	2
Wisconsin	1,440	163	35	1,638	24	46
PAD District 3	31,071	1,234	4,143	36,448	24,356	46,614
Alabama	1,594	18	20	1,632	287	26
Arkansas	810	—	36	846	—	49
Louisiana	5,391	769	1,375	7,535	11,687	4,077
Mississippi	1,157	305	195	1,657	46	5,738
New Mexico	296	—	—	296	82	17
Texas	21,823	142	2,517	24,482	12,254	36,707
PAD District 4	3,196	218	54	3,468	224	591
Colorado	616	—	—	616	4	20
Idaho	218	—	—	218	—	—
Montana	1,160	66	—	1,226	92	20
Utah	594	75	54	723	46	520
Wyoming	608	77	—	685	82	31
PAD District 5	10,607	240	650	11,497	4,472	1,575
Alaska	986	—	94	1,080	325	6
Arizona	462	3	—	465	—	1,045
California	5,597	237	285	6,119	2,135	363
Hawaii	324	—	269	593	953	58
Nevada	396	—	2	398	—	—
Oregon	994	—	—	994	7	—
Washington	1,848	—	—	1,848	1,052	103
U.S. Total	115,614	8,348	10,898	134,860	41,537	72,262

— = No Data Reported.

¹ Excludes stocks located in the "Northeast Heating Oil Reserve", "Northeast Regional Refined Petroleum Product Reserve", and "State of New York's Strategic Fuels Reserve Program". For details see Appendix D.

Note: Stocks are reported as of the last day of the month.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration (EIA) Forms EIA-810, "Monthly Refinery Report," EIA-815, "Monthly Bulk Terminal and Blender Report," EIA-816, "Monthly Natural Gas Liquids Report," and EIA-819, "Monthly Oxygenate Report."

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, December 2016
(Thousand Barrels)

Commodity	From 1 to			From 2 to				From 3 to	
	2	3	5	1	3	4	5	1	2
Crude Oil	186	198	0	3,317	33,543	7,100	3,904	517	27,329
Petroleum Products	13,749	437	0	14,526	27,506	6,067	4,724	100,259	19,004
Pentanes Plus	21	0	—	0	958	244	—	0	5,460
Liquefied Petroleum Gases	4,076	428	0	2,622	15,892	2,890	571	2,394	3,376
Unfinished Oils	62	0	—	0	408	—	—	0	101
Motor Gasoline Blending Components	6,656	0	0	1,599	1,730	1,052	0	51,689	5,854
Reformulated - RBOB	0	0	0	0	390	—	0	8,360	2,000
Conventional	6,656	0	0	1,599	1,340	1,052	0	43,329	3,854
CBOB	6,656	0	0	1,599	1,185	1,052	0	43,279	2,971
GTAB	—	—	—	—	—	—	—	—	—
Other	0	0	—	0	155	—	—	50	883
Renewable Fuels	23	0	0	8,533	5,751	—	0	275	15
Fuel Ethanol	0	0	0	8,385	5,448	510	3,918	200	0
Renewable Diesel Fuel ²	23	0	0	148	303	54	235	75	15
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	164	0	0	583	239	175	0	3,949	638
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	164	0	0	583	239	175	0	3,949	638
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	164	0	0	583	239	175	0	3,949	638
Finished Aviation Gasoline	0	0	—	0	0	—	—	407	9
Kerosene-Type Jet Fuel	244	0	0	120	18	632	0	14,156	1,481
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,503	0	0	1,051	1,142	510	0	26,576	1,593
15 ppm sulfur and under	2,503	0	0	1,051	1,142	510	0	24,204	1,493
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—	—	94	100
Greater than 500 ppm sulfur	—	0	—	0	0	—	—	2,278	—
Residual Fuel Oil	0	0	—	—	1,219	—	—	—	0
Petrochemical Feedstocks	0	0	—	0	124	—	—	36	0
Naphtha for Petrochemical Feedstock Use	0	0	—	0	124	—	—	36	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	0	0	—	—	0	—	—	—	53
Lubricants	0	9	0	18	0	—	0	550	224
Waxes	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	0	0	—	—	227	200
Miscellaneous Products	0	0	—	—	25	0	—	—	0
Total	13,935	635	0	17,843	61,049	13,167	8,628	100,776	46,333

See footnotes at end of table.

Table 57. Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge, and Rail ¹ Between PAD Districts, December 2016
(Thousand Barrels) — Continued

Commodity	From 3 to		From 4 to				From 5 to		
	4	5	1	2	3	5	1	3	4
Crude Oil	0	170	0	18,012	709	0	0	0	0
Petroleum Products	0	5,404	0	6,852	6,986	2,903	0	26	23
Pentanes Plus	0	—	0	606	1,030	—	0	0	0
Liquefied Petroleum Gases	0	348	0	4,962	5,956	623	0	0	0
Unfinished Oils	—	—	0	0	0	—	0	0	—
Motor Gasoline Blending Components	0	3,664	0	304	0	1,388	0	0	0
Reformulated - RBOB	—	2,281	0	0	0	0	0	0	—
Conventional	0	1,383	0	304	0	1,388	0	0	0
CBOB	0	1,383	0	304	0	1,388	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	—	—	0	0	0	—	0	0	—
Renewable Fuels	—	524	0	0	0	0	0	23	—
Fuel Ethanol	0	524	0	0	0	0	0	0	0
Renewable Diesel Fuel ²	0	0	0	0	0	0	0	23	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	0	0	0	374	0	334	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	0	0	0	374	0	334	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	0	0	0	374	0	334	0	0	0
Finished Aviation Gasoline	—	—	0	0	0	—	0	0	—
Kerosene-Type Jet Fuel	0	250	0	268	0	35	0	0	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	0	618	0	313	0	523	0	0	0
15 ppm sulfur and under	0	618	0	313	0	523	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	0	0	0	—	0	0	—
Greater than 500 ppm sulfur	—	—	0	—	0	—	0	0	—
Residual Fuel Oil	—	—	—	0	0	—	—	0	—
Petrochemical Feedstocks	—	—	0	0	0	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	0	0	0	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—	—	0	—
Lubricants	—	0	0	0	0	0	0	3	—
Waxes	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	—	—	0	0	0	—	0	0	—
Miscellaneous Products	0	—	—	25	0	—	—	0	0
Total	0	5,575	0	24,864	7,695	2,903	0	26	23

— = No Data Reported.

¹ Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

² Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, December 2016
(Thousand Barrels)

Commodity	From 1 to		From 2 to			From 3 to			
	2	3	1	3	4	1	2	4	5
Crude Oil	135	73	280	33,022	7,100	193	27,178	0	-
Petroleum Products	13,517	0	3,147	18,229	5,503	84,078	17,517	0	4,532
Pentanes Plus	21	0	0	958	244	0	5,460	0	-
Liquefied Petroleum Gases	3,929	0	943	14,488	2,890	2,131	3,074	0	-
Motor Gasoline Blending Components	6,656	0	968	1,575	1,052	42,412	5,643	0	3,664
Reformulated - RBOB	0	0	0	390	-	7,865	2,000	-	2,281
Conventional	6,656	0	968	1,185	1,052	34,547	3,643	0	1,383
CBOB	6,656	0	968	1,185	1,052	34,547	2,971	0	1,383
GTAB	-	-	-	-	-	-	-	-	-
Other	0	0	-	0	-	-	672	-	-
Renewable Fuels	-	-	-	-	-	-	-	-	-
Fuel Ethanol	-	-	-	-	-	-	-	-	-
Renewable Diesel Fuel ¹	-	-	-	-	-	-	-	-	-
Other Renewable Fuels	-	-	-	-	-	-	-	-	-
Finished Motor Gasoline	164	0	543	115	175	3,060	460	0	0
Reformulated	-	-	-	-	-	-	-	-	-
Reformulated Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	164	0	543	115	175	3,060	460	0	0
Conventional Blended with Fuel Ethanol	-	-	-	-	-	-	-	-	-
Ed55 and Lower	-	-	-	-	-	-	-	-	-
Greater than Ed55	-	-	-	-	-	-	-	-	-
Conventional Other	164	0	543	115	175	3,060	460	0	0
Finished Aviation Gasoline	-	-	-	-	-	-	-	-	-
Kerosene-Type Jet Fuel	244	0	120	18	632	12,603	1,481	0	250
Kerosene	-	-	-	-	-	-	-	-	-
Distillate Fuel Oil	2,503	0	573	1,050	510	23,872	1,399	0	618
15 ppm sulfur and under	2,503	0	573	1,050	510	21,500	1,299	0	618
Greater than 15 ppm to 500 ppm sulfur	0	0	0	0	-	94	100	-	-
Greater than 500 ppm sulfur	-	0	0	0	-	2,278	-	-	-
Residual Fuel Oil	-	-	-	-	-	-	-	-	-
Miscellaneous Products	0	0	-	25	0	-	0	0	-
Total	13,652	73	3,427	51,251	12,603	84,271	44,695	0	4,532

See footnotes at end of table.

Table 58. Movements of Crude Oil and Petroleum Products by Pipeline Between PAD Districts, December 2016
(Thousand Barrels) — Continued

Commodity	From 4 to				From 5 to	
	1	2	3	5	3	4
Crude Oil	0	18,012	348	—	0	0
Petroleum Products	0	6,852	6,986	2,280	0	0
Pentanes Plus	0	606	1,030	—	0	0
Liquefied Petroleum Gases	0	4,962	5,956	—	0	0
Motor Gasoline Blending Components	0	304	0	1,388	0	0
Reformulated - RBOB	0	0	0	0	0	—
Conventional	0	304	0	1,388	0	0
CBOB	0	304	0	1,388	0	0
GTAB	—	—	—	—	—	—
Other	—	0	0	—	0	—
Renewable Fuels	—	—	—	—	—	—
Fuel Ethanol	—	—	—	—	—	—
Renewable Diesel Fuel ¹	—	—	—	—	—	—
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	374	0	334	0	0
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	374	0	334	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	374	0	334	0	0
Finished Aviation Gasoline	—	—	—	—	—	—
Kerosene-Type Jet Fuel	0	268	0	35	0	0
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	313	0	523	0	0
15 ppm sulfur and under	0	313	0	523	0	0
Greater than 15 ppm to 500 ppm sulfur	0	0	0	—	0	—
Greater than 500 ppm sulfur	0	—	0	—	0	—
Residual Fuel Oil	—	—	—	—	—	—
Miscellaneous Products	—	25	0	—	0	0
Total	0	24,864	7,334	2,280	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report."

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, December 2016
(Thousand Barrels)

Commodity	From 1 to			From 2 to		
	2	3	5	1	3	5
Crude Oil	51	125	—	322	297	—
Petroleum Products	62	9	0	1,167	3,136	0
Liquefied Petroleum Gases	—	0	—	0	0	—
Unfinished Oils	62	0	—	0	408	—
Motor Gasoline Blending Components	0	0	—	631	155	—
Reformulated - RBOB	—	0	—	0	0	—
Conventional	0	0	—	631	155	—
CBOB	0	0	—	631	0	—
GTAB	—	—	—	—	—	—
Other	0	0	—	0	155	—
Renewable Fuels	0	0	—	0	1,014	—
Fuel Ethanol	0	0	—	0	974	—
Renewable Diesel Fuel ¹	0	0	—	0	40	—
Other Renewable Fuels	—	—	—	—	—	—
Finished Motor Gasoline	0	0	—	40	124	—
Reformulated	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—
Conventional	0	0	—	40	124	—
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—
Conventional Other	0	0	—	40	124	—
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	—	0	—	0	0	—
Kerosene	—	—	—	—	—	—
Distillate Fuel Oil	0	0	—	478	92	—
15 ppm sulfur and under	0	0	—	478	92	—
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—
Residual Fuel Oil	0	0	—	—	1,219	—
Less than 0.31 percent sulfur	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	0	0	—	—	126	—
Greater than 1.00 percent sulfur	0	0	—	—	1,093	—
Petrochemical Feedstocks	0	0	—	0	124	—
Naphtha for Petrochemical Feedstock Use	0	0	—	0	124	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—
Special Naphthas	0	0	—	—	0	—
Lubricants	0	9	0	18	0	0
Waxes	—	—	—	—	—	—
Asphalt and Road Oil	0	0	—	0	0	—
Miscellaneous Products	—	—	—	—	—	—
Total	113	134	0	1,489	3,433	0

See footnotes at end of table.

Table 59. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, December 2016
(Thousand Barrels) — Continued

Commodity	From 3 to						From 5 to		
	1	New England	Central Atlantic	Lower Atlantic	2	5	1	2	3
Crude Oil	324	—	324	—	151	—	0	0	0
Petroleum Products	15,947	439	521	14,987	1,170	0	0	0	3
Liquefied Petroleum Gases	29	—	—	29	—	—	0	—	0
Unfinished Oils	0	—	—	—	101	—	0	0	0
Motor Gasoline Blending Components	9,277	431	227	8,619	211	—	0	0	0
Reformulated - RBOB	495	318	177	—	—	—	0	—	0
Conventional	8,782	113	50	8,619	211	—	0	0	0
CBOB	8,732	113	—	8,619	0	—	0	0	0
GTAB	—	—	—	—	—	—	—	—	—
Other	50	—	50	—	211	—	0	0	0
Renewable Fuels	275	—	—	275	0	—	0	0	0
Fuel Ethanol	200	—	—	200	0	—	0	0	0
Renewable Diesel Fuel ¹	75	—	—	75	0	—	0	0	0
Other Renewable Fuels	—	—	—	—	—	—	—	—	—
Finished Motor Gasoline	889	—	—	889	178	—	0	0	0
Reformulated	—	—	—	—	—	—	—	—	—
Reformulated Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Reformulated Other	—	—	—	—	—	—	—	—	—
Conventional	889	—	—	889	178	—	0	0	0
Conventional Blended with Fuel Ethanol	—	—	—	—	—	—	—	—	—
Ed55 and Lower	—	—	—	—	—	—	—	—	—
Greater than Ed55	—	—	—	—	—	—	—	—	—
Conventional Other	889	—	—	889	178	—	0	0	0
Finished Aviation Gasoline	407	8	—	399	9	—	0	0	0
Kerosene-Type Jet Fuel	1,553	—	—	1,553	—	—	0	—	0
Kerosene	—	—	—	—	—	—	—	—	—
Distillate Fuel Oil	2,704	—	—	2,704	194	—	0	0	0
15 ppm sulfur and under	2,704	—	—	2,704	194	—	0	0	0
Greater than 15 ppm to 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Greater than 500 ppm sulfur	—	—	—	—	—	—	—	—	—
Residual Fuel Oil	—	—	—	—	0	—	—	0	0
Less than 0.31 percent sulfur	—	—	—	—	—	—	—	—	—
0.31 to 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Greater than 1.00 percent sulfur	—	—	—	—	0	—	—	0	0
Petrochemical Feedstocks	36	—	—	36	0	—	0	0	0
Naphtha for Petrochemical Feedstock Use	36	—	—	36	0	—	0	0	0
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—	—	—	—
Special Naphthas	—	—	—	—	53	—	—	0	0
Lubricants	550	—	294	256	224	0	0	0	3
Waxes	—	—	—	—	—	—	—	—	—
Asphalt and Road Oil	227	—	—	227	200	—	0	0	0
Miscellaneous Products	—	—	—	—	—	—	—	—	—
Total	16,271	439	845	14,987	1,321	0	0	0	3

— = No Data Reported.

Sources: Energy Information Administration (EIA) Form EIA-817, "Monthly Tanker and Barge Movements Report."

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Table 60. Movements of Crude Oil and Selected Products by Rail Between PAD Districts, December 2016
(Thousand Barrels)

Commodity	From 1 to				From 2 to			
	2	3	4	5	1	3	4	5
Crude Oil	0	0	0	0	2,715	224	0	3,904
Propane	63	426	0	0	543	877	0	94
Propylene	0	0	–	–	378	457	–	–
Normal Butane	0	0	0	0	635	45	0	397
Isobutane	84	2	0	0	123	25	0	80
Fuel Ethanol	0	0	0	0	8,385	4,474	510	3,918
Biodiesel	23	0	0	0	148	263	54	235

Commodity	From 3 to				From 4 to			
	1	2	4	5	1	2	3	5
Crude Oil	0	0	0	170	0	0	361	0
Propane	62	135	0	0	0	0	0	108
Propylene	0	0	–	–	0	0	0	–
Normal Butane	164	124	0	281	0	0	0	427
Isobutane	8	43	0	67	0	0	0	88
Fuel Ethanol	0	0	0	524	0	0	0	0
Biodiesel	0	15	0	0	0	0	0	0

Commodity	From 5 to			
	1	2	3	4
Crude Oil	0	0	0	0
Propane	0	0	0	0
Propylene	0	0	0	–
Normal Butane	0	0	0	0
Isobutane	0	0	0	0
Fuel Ethanol	0	0	0	0
Biodiesel	0	0	23	23

– = No Data Reported.

Source: Rail Movements are estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 61. Movements of Crude Oil by Pipeline, Tanker, Barge and Rail between PAD Districts, December 2016
(Thousand Barrels)

PADD	Pipeline	Tanker and Barge	Rail	Total
From 1 to				
2	135	51	0	186
3	73	125	0	198
4	0	—	0	0
5	—	—	0	0
From 2 to				
1	280	322	2,715	3,317
3	33,022	297	224	33,543
4	7,100	—	0	7,100
5	—	—	3,904	3,904
From 3 to				
1	193	324	0	517
2	27,178	151	0	27,329
4	0	—	0	0
5	—	—	170	170
From 4 to				
1	0	0	0	0
2	18,012	0	0	18,012
3	348	0	361	709
5	—	—	0	0
From 5 to				
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	—	0	0

— = No Data Reported.

Sources: Energy Information Administration (EIA) Forms EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail Between PAD Districts, December 2016
(Thousand Barrels)

Commodity	PAD District 1			PAD District 2			PAD District 3		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	3,834	384	3,450	45,527	47,864	-2,337	34,450	28,016	6,434
Petroleum Products	114,785	14,186	100,599	39,605	52,823	-13,218	34,955	124,667	-89,712
Pentanes Plus	0	21	-21	6,087	1,202	4,885	1,988	5,460	-3,472
Liquefied Petroleum Gases	5,016	4,504	512	12,414	21,975	-9,561	22,276	6,118	16,158
Ethane/Ethylene	45	3,866	-3,821	5,526	7,618	-2,092	8,752	389	8,363
Propane/Propylene	4,041	534	3,507	4,254	10,379	-6,125	10,061	4,033	6,028
Normal Butane/Butylene	799	5	794	1,561	2,921	-1,360	2,261	1,067	1,194
Isobutane/Isobutylene	131	99	32	1,073	1,057	16	1,202	629	573
Unfinished Oils	0	62	-62	163	408	-245	408	101	307
Motor Gasoline Blending Components	53,288	6,656	46,632	12,814	4,381	8,433	1,730	61,207	-59,477
Reformulated - RBOB	8,360	0	8,360	2,000	390	1,610	390	12,641	-12,251
Conventional	44,928	6,656	38,272	10,814	3,991	6,823	1,340	48,566	-47,226
CBOB	44,878	6,656	38,222	9,931	3,836	6,095	1,185	47,633	-46,448
GTAB	0	0	-	-	-	-	-	-	-
Other	50	0	50	883	155	728	155	933	-778
Renewable Fuels	8,808	23	8,785	38	19,001	-18,963	5,774	814	4,960
Fuel Ethanol	8,585	0	8,585	0	18,261	-18,261	5,448	724	4,724
Renewable Diesel Fuel ¹	223	23	200	38	740	-702	326	90	236
Other Renewable Fuels	-	-	-	-	-	-	0	0	-
Finished Motor Gasoline	4,532	164	4,368	1,176	997	179	239	4,587	-4,348
Reformulated	0	0	-	0	0	-	0	0	-
Reformulated Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Reformulated Other	-	-	-	-	-	-	-	-	-
Conventional	4,532	164	4,368	1,176	997	179	239	4,587	-4,348
Conventional Blended with Fuel Ethanol	0	0	-	0	0	-	0	0	-
Ed55 and Lower	0	0	-	0	0	-	0	0	-
Greater than Ed55	0	0	-	0	0	-	0	0	-
Conventional Other	4,532	164	4,368	1,176	997	179	239	4,587	-4,348
Finished Aviation Gasoline	407	0	407	9	0	9	0	416	-416
Kerosene-Type Jet Fuel	14,276	244	14,032	1,993	770	1,223	18	15,887	-15,869
Kerosene	0	0	-	0	0	-	0	0	-
Distillate Fuel Oil	27,627	2,503	25,124	4,409	2,703	1,706	1,142	28,787	-27,645
15 ppm sulfur and under	25,255	2,503	22,752	4,309	2,703	1,606	1,142	26,315	-25,173
Greater than 15 ppm to 500 ppm sulfur	94	0	94	100	0	100	0	194	-194
Greater than 500 ppm sulfur	2,278	0	2,278	0	0	-	0	2,278	-2,278
Residual Fuel Oil	0	0	-	0	1,219	-1,219	1,219	0	1,219
Petrochemical Feedstocks	36	0	36	0	124	-124	124	36	88
Naphtha for Petrochemical Feedstock Use	36	0	36	0	124	-124	124	36	88
Other Oils for Petrochemical Feedstock Use	-	-	-	0	0	-	0	0	-
Special Naphthas	0	0	-	53	0	53	0	53	-53
Lubricants	568	9	559	224	18	206	12	774	-762
Waxes	0	0	-	0	0	-	0	0	-
Asphalt and Road Oil	227	0	227	200	0	200	0	427	-427
Miscellaneous Products	0	0	-	25	25	0	25	0	25
Total	118,619	14,570	104,049	85,132	100,687	-15,556	69,405	152,683	-83,278

See footnotes at end of table.

Table 62. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, Barge and Rail Between PAD Districts, December 2016
(Thousand Barrels) — Continued

Commodity	PAD District 4			PAD District 5		
	Receipts	Shipments	Net Receipts	Receipts	Shipments	Net Receipts
Crude Oil	7,100	18,721	-11,621	4,075	0	4,075
Petroleum Products	6,089	16,741	-10,652	13,031	48	12,983
Pentanes Plus	244	1,636	-1,392	0	0	—
Liquefied Petroleum Gases	2,890	11,541	-8,651	1,542	0	1,542
Ethane/Ethylene	771	3,221	-2,450	0	0	—
Propane/Propylene	1,381	4,993	-3,612	202	0	202
Normal Butane/Butylene	543	2,276	-1,733	1,105	0	1,105
Isobutane/Isobutylene	195	1,051	-856	235	0	235
Unfinished Oils	0	0	—	0	0	—
Motor Gasoline Blending Components	1,052	1,692	-640	5,052	0	5,052
Reformulated - RBOB	—	—	—	2,281	0	2,281
Conventional	1,052	1,692	-640	2,771	0	2,771
CBOB	1,052	1,692	-640	2,771	0	2,771
GTAB	—	—	—	—	—	—
Other	0	0	—	0	0	—
Renewable Fuels	586	0	586	4,677	45	4,632
Fuel Ethanol	510	0	510	4,442	0	4,442
Renewable Diesel Fuel ¹	77	0	77	235	45	189
Other Renewable Fuels	—	—	—	0	0	—
Finished Motor Gasoline	175	708	-533	334	0	334
Reformulated	—	—	—	0	0	—
Reformulated Blended with Fuel Ethanol	—	—	—	0	0	—
Reformulated Other	—	—	—	—	—	—
Conventional	175	708	-533	334	0	334
Conventional Blended with Fuel Ethanol	0	0	—	0	0	—
Ed55 and Lower	0	0	—	0	0	—
Greater than Ed55	0	0	—	0	0	—
Conventional Other	175	708	-533	334	0	334
Finished Aviation Gasoline	0	0	—	0	0	—
Kerosene-Type Jet Fuel	632	303	329	285	0	285
Kerosene	0	0	—	0	0	—
Distillate Fuel Oil	510	836	-326	1,141	0	1,141
15 ppm sulfur and under	510	836	-326	1,141	0	1,141
Greater than 15 ppm to 500 ppm sulfur	0	0	—	0	0	—
Greater than 500 ppm sulfur	0	0	—	0	0	—
Residual Fuel Oil	0	0	—	0	0	—
Petrochemical Feedstocks	—	—	—	0	0	—
Naphtha for Petrochemical Feedstock Use	—	—	—	0	0	—
Other Oils for Petrochemical Feedstock Use	—	—	—	—	—	—
Special Naphthas	—	—	—	0	0	—
Lubricants	0	0	—	0	3	-3
Waxes	0	0	—	0	0	—
Asphalt and Road Oil	0	0	—	0	0	—
Miscellaneous Products	0	25	-25	0	0	—
Total	13,189	35,462	-22,273	17,106	48	17,058

— = No Data Reported.

Movements of crude oil, fuel ethanol and biodiesel include movements by rail. Movements of other products are by pipeline, tanker and barge only.

¹ Renewable diesel fuel includes biodiesel and other renewable diesel.

Sources: Energy Information Administration (EIA) Forms EIA-812, "Monthly Product Pipeline Report," EIA-813, "Monthly Crude Oil Report," EIA-817, "Monthly Tanker and Barge Movements Report." Rail net movements estimates based on EIA analysis of data from the Surface Transportation Board and other information.

District Descriptions and Maps

The following are the Refining Districts which make up the Petroleum Administration for Defense (PAD) Districts.

PAD District I

East Coast: The District of Columbia and the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, and the following counties of the State of New York: Cayuga, Tompkins, Chemung, and all counties east and north thereof. Also the following counties in the State of Pennsylvania: Bradford, Sullivan, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appalachian No. 1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

Sub-PAD District I

New England: The States of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont.

Central Atlantic: The District of Columbia and the States of Delaware, Maryland, New Jersey, New York, and Pennsylvania.

Lower Atlantic: The States of Florida, Georgia, North Carolina, South Carolina, Virginia and West Virginia.

PAD District II

Indiana-Illinois-Kentucky: The States of Indiana, Illinois, Kentucky, Tennessee, Michigan, and Ohio.

Minnesota-Wisconsin-North and South Dakota: The States of Minnesota, Wisconsin, North Dakota, and South Dakota.

Oklahoma-Kansas-Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and Iowa.

PAD District III

Texas Inland: The State of Texas except the Texas Gulf Coast District.

Texas Gulf Coast: The following counties of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Brazoria, Wharton, Matagorda, Jackson, Victoria, Calhoun, Refugio, Aransas, San Patricio, Nueces, Kleberg, Kenedy, Willacy, and Cameron.

Louisiana Gulf Coast: The following Parishes of the State of Louisiana: Vernon, Rapides, Avoyelles, Pointe Coupee, West Feliciana, East Feliciana, Saint Helena, Tangipahoa, Washington, and all Parishes south thereof. Also the following counties of the State of Mississippi: Pearl River, Stone, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabama: Mobile and Baldwin.

North Louisiana-Arkansas: The State of Arkansas and those parts of the States of Louisiana, Mississippi, and Alabama not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

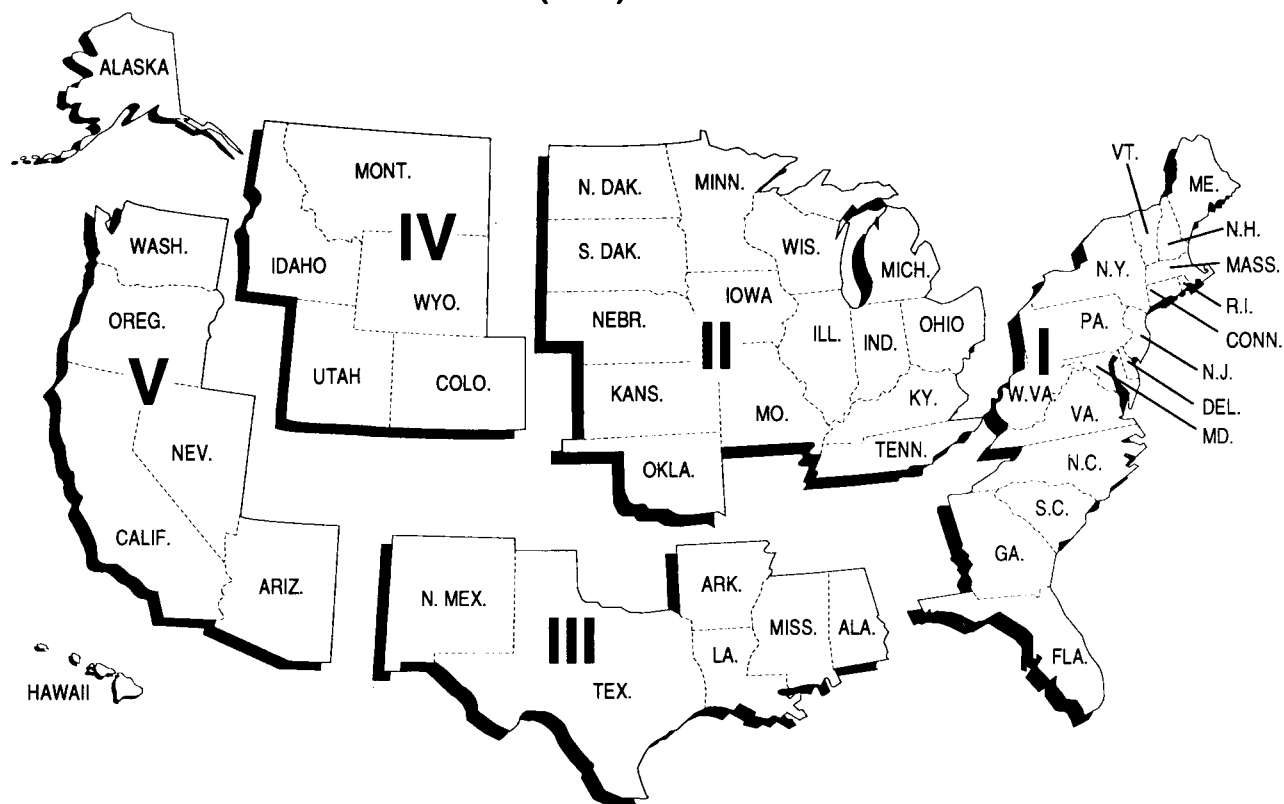
PAD District IV

Rocky Mountain: The States of Montana, Idaho, Wyoming, Utah, and Colorado.

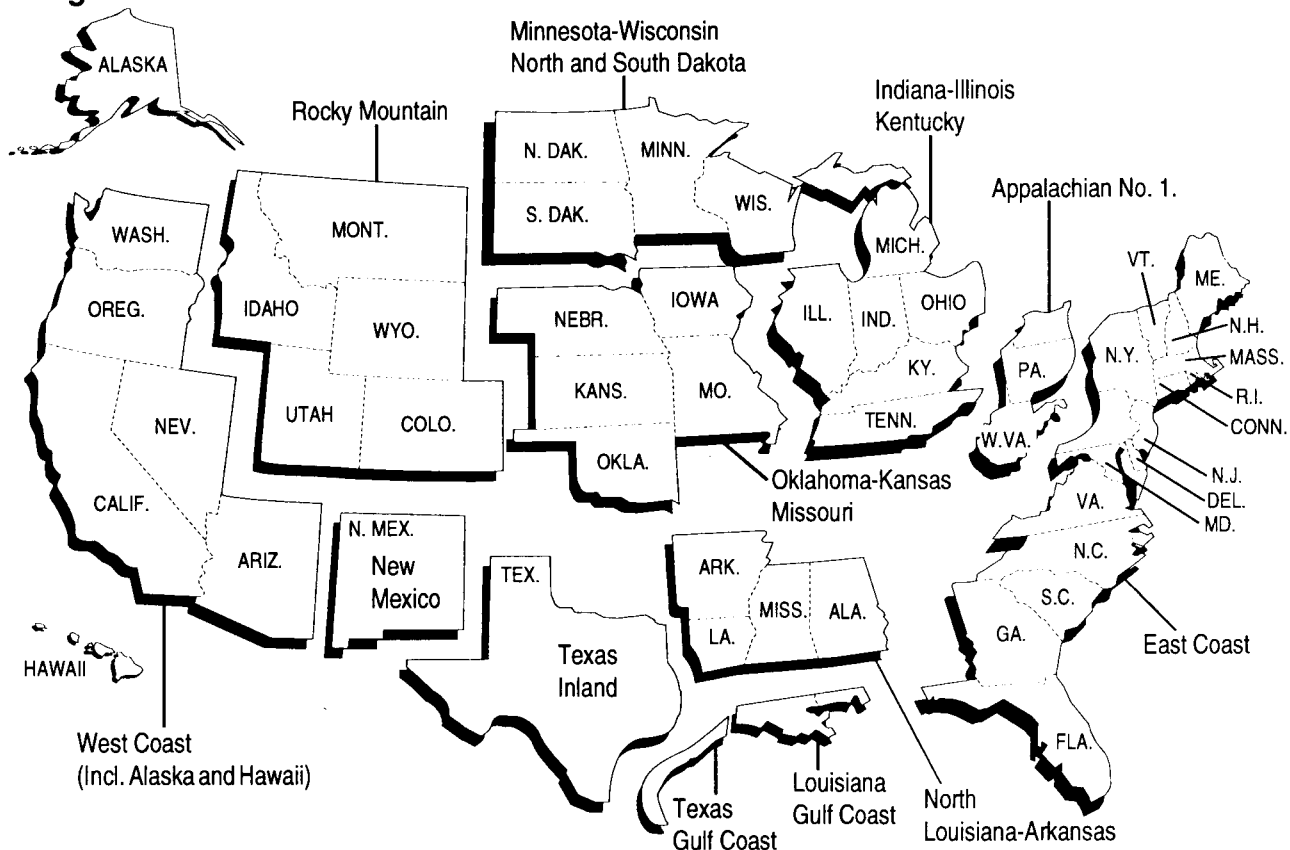
PAD District V

West Coast: The States of Washington, Oregon, California, Nevada, Arizona, Alaska, and Hawaii.

Petroleum Administration for Defense (PAD) Districts



Refining Districts



PSM Explanatory Notes

Preface

The *Petroleum Supply Monthly (PSM)* is the monthly component of a series of three publications concerning the supply and disposition of crude oil and petroleum products produced by the Petroleum Division of the Energy Information Administration (EIA). The other two components are the *Weekly Petroleum Status Report (WPSR)* and the *Petroleum Supply Annual (PSA)*. Together these publications present a comprehensive snapshot of petroleum supply data on a weekly, monthly and yearly basis.

Data presented in the PSM describe the supply and disposition of petroleum products in the United States and major U.S. geographic regions. The data series describe production, imports and exports, inter-Petroleum Administration for Defense (PAD) District movements, and inventories by the primary suppliers of petroleum products in the United States (50 States and the District of Columbia). The reporting universe includes those petroleum sectors in primary supply: petroleum refiners, motor gasoline blenders, operators of natural gas processing plants and fractionators, inter-PAD District transporters, importers, and major inventory holders of petroleum products and crude oil. When aggregated, the data reported by these sectors approximately represent the consumption of petroleum products in the United States.

The PSM tables present statistics for the most current month available as well as year-to-date. In most cases, the statistics are presented for several geographic areas - the United States (50 States and the District of Columbia), five PAD Districts, and 12 Refining Districts. At the U.S. and PAD District level, the total volume and the daily rate of activities are presented. The statistics are developed from monthly survey forms submitted by respondents to the EIA and from data provided from other sources.

Final statistics for the data series published in the *PSM* are published in the *PSA*. The *PSA* is published approximately five months after the end of the report year.

Appendix B. Explanatory Notes

1. Overview

A. The Energy Information Administration's Quality Guidelines

The data contained in the *Petroleum Supply Monthly (PSM)* are subject to separate information quality guidelines issued by the Office of Management and Budget (OMB), the Department of Energy (DOE), and Energy Information Administration (EIA). With available resources, EIA continually works to improve its systems in order to provide high quality information needed by public and private policymakers and decision makers. EIA has performance standards to ensure the quality (i.e., objectivity, utility, and integrity) of information it disseminates to the public. Quality is ensured and maximized at levels appropriate to the nature and timeliness of the disseminated information.

B. Concepts of Product Supply and Demand

Petroleum supply estimates contained in the PSM are often interpreted as an approximation of petroleum demand measured as product supplied. Product supplied is often called “implied” demand because it is a measure of demand that is implied by disappearance of petroleum products from facilities and activities in the “primary” supply chain. Facilities and activities in the primary supply chain include refineries and blending terminals, gas processing plants and fractionators, oxygenate producers, biodiesel producers, imports, exports, bulk storage terminals, and pipelines. Total product supplied in the PSM at the U.S. level is equal to the sum of field production, plus refinery and blender net production, plus renewable fuels, and oxygenate plant net production, plus imports, plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports. Net receipts are added as a component of supply at the PAD District level. Crude oil product supplied is normally zero because crude oil is processed in refineries and rarely, if ever, used directly.

The secondary system is that portion of the overall distribution network that falls between producers and end-users. Product typically flows in bulk from the primary supply system into the secondary system before delivery in small quantities to consumers (the tertiary system). The secondary system includes storage at bulk plants; at retail motor fuel outlets, such as service stations, truck stops, and convenience stores; and at retail fuel oil dealers. Bulk plants are wholesale storage facilities that have less than 50,000 barrels of storage capacity and, by definition, receive product only by tank car or truck, not by barge, tanker, or pipeline. Tertiary inventories are held by end users and include fuel in vehicle tanks, heating oil in residential tanks, fuel oil held by utilities, jet fuel stored in facilities operated by end users, and certain proprietary storage of raw materials (e.g. propane) for the chemical industry.

Data users sometimes consider demand as sales to the ultimate consumer or as the actual consumption of the product. Since there may be time delays between the movement of product into the primary market and its ultimate purchase or consumption, these definitions of demand require data on changes in secondary and/or tertiary stocks or the assumption that these values either remain constant or are small

compared to primary supply. The most recent study of secondary stocks was done by the National Petroleum Council in 1989. This study revealed that secondary distillate stocks were equal to about 6.9 percent of distillate stocks and 6.7 percent of distillate storage capacity.

C. Components of Supply and Disposition

The detailed statistics tables in the PSM provide complete supply and disposition information for the current month and year to date. The tables are organized to locate National and Petroleum Administration for Defense (PAD) District supply and disposition data at the front followed by tables that contain detailed information on supply and disposition. These include tables on crude oil and petroleum product production, import/export data, stocks information, and lastly, data on crude oil and petroleum product movements. To assist in the interpretation of these tables, the following discussion of supply, disposition, and ending stocks as shown in Tables 1– 25 is provided. The categories and products are defined in the EIA Glossary.

(1.) Supply

a. Field Production - Total Field Production is the sum of crude oil production and natural gas plant liquids and liquefied refinery gases production.

Crude oil production is an estimate based on data received from State conservation agencies and the Mineral Management Service of the U.S. Department of the Interior. Refer to “Domestic Crude Oil Production” in Section 2C (1) for further details.

Field production of natural gas plant liquids is reported on Form EIA-816 and published on a net basis (i.e., production minus inputs).

b. Renewable Fuels and Oxygenate Plant Net Production - Renewable Fuels and Oxygenate Plant Net Production are reported on Forms EIA-819 and EIA-22M. Production includes oxygenates (fuel ethanol, ETBE, MTBE, and other oxygenates) plus negative production of pentanes plus, finished motor gasoline, and motor gasoline blending components added to fuel ethanol as denaturants as well as biodiesel. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reported as input during the same month.

c. Refinery and Blender Net Production – Refinery and Blender Net Production is reported on Form EIA-810 and EIA-815. Refinery and Blender Net Production equals refinery and blenders production minus refinery and blender net inputs. Negative production of finished petroleum products will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the

same month.

d. Imports - Imports include receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

e. Net Receipts – Net Receipts data are included in tables containing PAD District-level data to account for inter-PAD District movements of crude oil and petroleum products. Net receipts for a PAD District are calculated by subtracting shipments out of the PAD District from receipts into the PAD District. Net Movements of Crude Oil and Petroleum Products by Pipeline, Tanker, and Barge, and Rail between PAD Districts are shown in Table 60.

f. Adjustments – This column includes adjustment quantities for crude oil, fuel ethanol, motor gasoline blending components, biodiesel (included in “Renewable Fuels Except Fuel Ethanol”) and distillate fuel oil. Adjustment quantities are derived either to balance supply and disposition for selected products or to reclassify one product to another product. Product supplied is the balancing item for most products and is interpreted as an implied measure of petroleum demand. Adjustments are used in cases where it does not make sense to interpret the balancing item as demand. Reclassifications reported in the adjustments column may be implied by the supply and disposition balance or reported on surveys. Recall that supply at the U.S. level is equal to the sum of field production, renewable fuels and oxygenate plant net production, refinery and blender net production, imports, and adjustments. Disposition at the U.S. level is equal to the sum of stock change, refinery and blender net inputs, exports, and products supplied. At the PAD District level, supply components include net receipts equal to gross receipts from other PAD Districts minus gross shipments to other PAD Districts. In every case, supply must equal disposition. Applicable components of supply and disposition vary depending on the product or product group. Unless otherwise noted in Section 2C, adjustment calculations that balance supply and disposition equal disposition minus supply for the U.S. and for each PAD District.

(2.) Disposition

a. Stock Change – Stock Change is calculated as the difference between the current month Ending Stocks column and the Ending Stocks column in the prior month’s publication. A negative number indicates a decrease in stocks and a positive number indicates an increase in stocks.

b. Refinery and Blender Net Inputs – Refinery and Blender Net Inputs are inputs of crude oil and intermediate materials (unfinished oils, motor and aviation gasoline blending components, liquefied petroleum gases, pentanes plus, hydrogen, oxygenates, renewable fuels, and other hydrocarbons) that are processed at refineries or blended at terminals to produce finished petroleum products.

Crude oil input represents total crude oil (domestic and foreign) input to atmospheric crude oil distillation units and other refinery processing units (e.g. vacuum distillation units).

Inputs of natural gas plant liquids are refinery input of natural gas liquids received from natural gas plants for blending and processing. Published inputs of natural gas plant liquids are reported on a gross basis.

Inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components are published on a net basis (i.e., refinery input minus refinery production). Negative inputs of unfinished oils and motor and aviation gasoline blending components will occur when the amount of a product produced during the month is greater than the amount of that same product that is input or reclassified to become another product during the same month.

c. Exports - Exports include shipments from the 50 States and the District of Columbia to Puerto Rico, the Virgin Islands, other U.S. possessions and territories and to foreign countries.

d. Products Supplied - Products supplied is equal to field production, plus renewable fuels and oxygenate plant net production, plus refinery and blender net production, plus imports, (plus net receipts on a PAD District basis), plus adjustments, minus stock change, minus refinery and blender net inputs, minus exports.

Product supplied value indicates those quantities of petroleum products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of the product exceeds total supply. Negative product supplied may occur for a number of reasons: (1) product reclassification has not been reported; (2) data were misreported or reported late; (3) in the case of calculations on a PAD District basis, the figure for net receipts was inaccurate because the coverage of inter-PAD movements was incomplete; and (4) products such as gasoline blending components and unfinished oils have entered the primary supply channels with their production not having been reported, e.g., streams returned to refineries from petrochemical plants.

Beginning with data for January 2010, product supplied for crude oil is assumed equal to zero. Prior to January 1983, crude oil burned on leases and by pipelines as fuel was reported as either distillate or residual fuel oil and was included in product supplied for these products. From January 1983 through December 2009, crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report.” Reporting of crude oil used directly was discontinued on Form EIA-813 after December 2009.

(3.) Ending Stocks

Ending stocks are primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals.

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary

Crude oil that is in-transit by water from Alaska and crude oil stored in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage. Primary stocks of petroleum products also exclude secondary stocks held by dealers and jobbers and tertiary stocks held by consumers. Product stocks held as reserves by federal and state agencies are excluded from primary stock quantities reported by EIA, but quantities held in selected government reserves are provided in Appendix D.

Primary stocks of crude oil included barrels held on producing sites (lease stocks) until June 2016. Primary stocks of crude oil excluded lease stocks beginning with release of PSM data for July 2016 on September 30, 2016. Historical crude oil stocks in Petroleum Navigator were revised beginning with data for January 2005 to exclude lease stocks. Petroleum Navigator data may be accessed from the following locations on the EIA web site.

http://www.eia.gov/dnav/pet/pet_sum_snd_d_nus_mbbbl_m_cur.htm
http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm
http://www.eia.gov/dnav/pet/pet_stoc_typ_c_nus_EPC0_mbbbl_m.htm

2. Components - Forms Discussions

The data presented in the PSM include data collected by the EIA on nine monthly petroleum supply surveys, export data obtained from the U. S. Bureau of the Census, and crude production data obtained from State conservation agencies and the Minerals Management Service of the U. S. Department of Interior.

A. Petroleum Supply Reporting System

The nine monthly petroleum supply surveys are part of the Petroleum Supply Reporting System (PSRS). The PSRS tracks the supply and disposition of crude oil, petroleum products, and natural gas liquids in the United States. The PSRS is organized into two data collection subsystems: the Weekly Petroleum Supply Reporting System (WPSRS) and the Monthly Petroleum Supply Reporting System (MPSRS). The WPSRS processes the data from the seven weekly surveys. The MPSRS includes nine monthly surveys and one annual survey. The survey forms that comprise the PSRS are:

1. EIA-800, "Weekly Refinery Report,"
2. EIA-802, "Weekly Product Pipeline Report,"
3. EIA-803, "Weekly Crude Oil Stocks Report,"
4. EIA-804, "Weekly Imports Report,"
5. EIA-805, "Weekly Terminal Blender Report,"
6. EIA-809, "Weekly Oxygenate Report,"
8. EIA-22M, "Monthly Biodiesel Production Survey,"
9. EIA-810, "Monthly Refinery Report,"
10. EIA-812, "Monthly Product Pipeline Report,"
11. EIA-813, "Monthly Crude Oil Report,"
12. EIA-814, "Monthly Imports Report,"
13. EIA-815, "Monthly Terminal Blender Report,"
14. EIA-816, "Monthly Natural Gas Liquids Report"
15. EIA-817, "Monthly Tanker and Barge Movement Report"
16. EIA-819, "Monthly Oxygenate Report"

17. EIA-820, "Annual Refinery Report."

Both weekly and monthly surveys are administered at six key points along the petroleum production and supply chain including refineries, fractionators, natural gas processing plants, bulk product storage and blending terminals, crude oil and product pipelines, crude oil stock holders, importers, and renewable fuel (biodiesel and fuel ethanol) and oxygenate producing plants. Monthly surveys also include inter-PAD District movements by pipelines, tankers, and barges. Weekly surveys do not capture petroleum movements. Respondents reporting on weekly surveys are sampled from among the respondents reporting on monthly surveys.

Annual U.S. refinery capacity data are collected on the Form EIA-820, "Annual Refinery Report." The EIA-820 data are published in the annual "Refinery Capacity Report."

B. Monthly Supply Survey Description and Methodology

(1.) Description of Surveys Forms

Copies of the survey forms and instructions can be found at: http://www.eia.doe.gov/oil_gas/petroleum/survey_forms/pet_survey_forms.html

The Form EIA-22M "Monthly Biodiesel Production Survey" collects data on biodiesel plant location, operating status, annual production capacity, monthly biodiesel and co-product production, stocks, input of feedstocks, alcohol, and catalysts, and biodiesel sales.

The Form EIA-810, "Monthly Refinery Report," collects data on refinery input and capacity, sulfur content and API gravity of crude oil, and data on supply (beginning stocks, receipts, and production) and disposition (inputs, shipments, fuel use and losses, and ending stocks) of crude oil and refined products. Working and shell storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-812, "Monthly Product Pipeline Report," collects data on end-of-month stocks and movements of petroleum products transported by pipeline. Intermediate movements for pipeline systems operating in more than two PAD Districts are included. Product pipeline tank storage capacity for selected products is collected on a semi-annual basis.

The Form EIA-813, "Monthly Crude Oil Report," collects data on end-of-month stock levels of crude oil held at pipeline and tank farms (associated with the pipelines) and terminals operated by the reporting company. Also, crude oil consumed by pipelines and on leases as pump fuel, boiler fuel, etc., is reported. Data are reported on a PAD District basis. Total Alaskan crude oil stocks in-transit by water (including stocks held at transshipment terminals between Alaska and the continental United States) to the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands are also reported by the transporting company having custody of the stocks. Inter-PAD District movements of crude oil by pipeline are collected by the shipping and receiving PAD District. Intermediate movements for pipeline systems operating in more than two PAD Districts

are not included. Crude oil storage capacity of tank farms is collected on a semi-annual basis.

The Form EIA-814, “Monthly Imports Report,” collects data on imports of crude oil and petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands, and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), and (3) from Puerto Rico, the Virgin Islands, and other U.S. possessions into the 50 States and the District of Columbia. Imports into Foreign Trade Zones located in the 50 States and the District of Columbia are considered imports into the 50 States and the District of Columbia. The type of commodity, port of entry, country of origin, quantity (thousand barrels), sulfur percent by weight, API gravity, and name and location of the processing or storage facility are reported. Sulfur percent by weight is requested for crude oil, crude oil burned as fuel, and residual fuel oil only. API gravity is requested for crude oil only. The name and location of the processing or storage facility is requested for crude oil, unfinished oils, and gasoline blending components only.

The Form EIA-815, “Monthly Terminal Blender Report,” collects data on the operations of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U. S. possessions. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and fuel use and losses during the month are collected from operators of terminals. Working and shell storage capacity is collected on a semi-annual basis.

The Form EIA-816, “Monthly Natural Gas Liquids Report,” collects data on the operations of natural gas processing plants and fractionators. Beginning and end-of-month stocks, receipts, inputs, production, shipments, and plant fuel use and losses during the month are collected from operators of natural gas processing plants. End-of-month stocks are collected from fractionators.

The Form EIA-817, “Monthly Tanker and Barge Movement Report,” collects data on the movements of crude oil and petroleum products between PAD Districts. Data are reported by shipping and receiving PAD District and sub-PAD District. Shipments to and from the Panama Canal are also included if the shipment was delivered to the Canal.

The Form EIA-819, “Monthly Oxygenate Report” collects facility-level data on oxygenate inputs, production, gasoline blending at ethanol plants, and end-of-month stocks. Data on end-of-month stocks are reported on a custody basis regardless of ownership. Fuel ethanol storage capacity is collected on a semi-annual basis.

(2.) Frame

EIA maintains complete lists of respondents to its monthly surveys. Each survey has a list of companies and facilities required to submit petroleum activity data. This list is known as the survey frame. Frame maintenance procedures are used to monitor the status of petroleum companies and facilities

currently contained in each survey frame as well as to identify new members to be added to the frame. As a result, all known petroleum supply organizations falling within the definition of “Who Must Submit” participate in the survey.

The activities for frames maintenance are conducted on an ongoing basis. Monthly frames maintenance procedures focus on examining industry periodicals that report changes in status (births, deaths, sales, mergers, and acquisitions) of petroleum facilities producing, transporting, importing, and/or storing crude oil and petroleum products. Augmenting these sources are articles in newspapers, notices from respondents, and information received from survey systems operated by other offices. Survey managers review these sources regularly to monitor changes in company operations and to develop lists of potential respondents. These activities assure coverage of the reporting universe and maintain accurate facility information on addresses and ownership.

Respondents to Form EIA-22M “Monthly Biodiesel Production Survey” include operators of plants that produce biodiesel meeting ASTM D 6751-07B specifications and used for commercial purposes.

Respondents to Form EIA-810, “Monthly Refinery Report” include operators of all operating and idle petroleum refineries located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam and other U.S. possessions.

Respondents to Form EIA-812, “Monthly Product Pipeline Report” include all product pipeline companies that carry petroleum products (including interstate, intrastate, and intra-company pipelines) in the 50 States and the District of Columbia.

Respondents to Form EIA-813, “Monthly Crude Oil Report” include all companies which carry or store 1,000 barrels or more of crude oil. Included in this survey are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil tank farm operators, and companies transporting Alaskan crude oil by water (to U.S. ports) in the 50 States and the District of Columbia.

Respondents to Form EIA-814, “Monthly Imports Report” include each importer of record (or Ultimate consignee in some situations regarding Canadian imports) that import crude oil or petroleum products (1) into the 50 States and the District of Columbia, (2) into Puerto Rico, the Virgin Islands and other U.S. possessions (Guam, Midway Islands, Wake Island, American Samoa, and Northern Mariana Islands), (3) into Foreign Trade Zones located in the 50 States and the District of Columbia and (4) from Puerto Rico, the Virgin Islands and other U.S. possessions into the 50 States and the District of Columbia. A report is required only if there has been an import during the month unless the importer has been selected as part of a sample to report every month regardless of activity.

Respondents to Form EIA-815, “Monthly Terminal Blender Report” include operators of all bulk terminals located in the 50 States, District of Columbia, Puerto Rico, the Virgin Islands,

Guam, and other U. S. possessions must report. A bulk terminal is primarily used for storage, marketing, and often blending of petroleum products and has a total bulk storage capacity of 50,000 barrels or more, and/or receives petroleum products by tanker, barge, or pipeline. Bulk terminal facilities associated with a product pipeline are included.

Respondents to Form EIA-816, "Monthly Natural Gas Liquids Report" include operators of all facilities that extract liquid hydrocarbons from a natural gas stream (natural gas processing plant) and/or separate a liquid hydrocarbon stream into its component products (fractionator).

Respondents to Form EIA-817, "Monthly Tanker and Barge Movement Report" include all companies that have custody of crude oil or petroleum products transported by tanker or barge between Petroleum Administration for Defense Districts and all companies that have custody of crude oil or petroleum products originating from a PAD District and transported to the Panama Canal with the intent that the crude oil or petroleum products be further transported to another PAD District.

For purposes of this report, custody is defined as physical possession of crude oil or petroleum products on a company-owned tanker or barge. Also, companies that lease vessels or contract for the movement of crude oil or petroleum products on a tanker or barge between PAD Districts are considered to have custody.

Respondents to Form EIA-819, "Monthly Oxygenate Report" include all operators of facilities that produce (manufacture or distill) oxygenates (including MTBE plants, petrochemical plants, and refineries that produce oxygenates as part of their operations located in the 50 States and the District of Columbia.)

(3.) Collection

Survey data for the MPSRS are collected by facsimile, email, Internet using secure file transfer, and electronic transmission. All respondents must submit their data by the 20th calendar day following the end of the report month. Receipt of the reports is monitored using an automated respondent mailing list. Telephone follow-up calls are made to nonrespondents prior to the publication deadline. Respondents who are chronically late (i.e., 3 consecutive months) are notified by EIA by certified letter.

(4.) Processing and Micro Editing

Upon receipt, all reported data are transformed into a standard format and sent through a log-in and prescreening process to validate respondent control information and resolve any discrepancies. The data are then processed using generalized edit and imputation procedures. Automated editing procedures check current data for consistency with past data and for internal consistency (e.g., totals equal to the sums of the parts). After the edit failures are resolved and imputation performed for nonrespondents, preliminary tables are produced and used to identify anomalies. These tables show U.S. and PAD District estimates for the current month and the prior 4 years. Anomalies

result in further review of respondent data which in turn may result in additional flagged data and imputation.

(5.) Estimation and Imputation

The nine monthly supply surveys are census surveys. As such, the estimates using these data are the sum of the edited, reported data. Imputation is performed for companies that fail to file Forms EIA-22M, 810, 812, 813, 815, 816, and 819. For these companies, previous monthly values and values reported on the weekly survey forms are used if available. Data for nonrespondents to the Forms EIA-814 and 817 are not imputed because respondent-level data for these surveys are highly variable.

Adjustments are made to aggregate data from time to time. For example, unusual industry conditions, including fuel transitions, business practice shifts, or hurricane dislocations, may generate reporting anomalies and require adjustments. Measurement error and frame deficiencies may occasionally result in inconsistencies when individual respondent data are aggregated to publication levels and require adjustment. Monthly supply data are reviewed throughout the year and some estimates may be replaced with newly available or resubmitted respondent data in the *Petroleum Supply Annual (PSA)*.

(6.) Macro Editing

Monthly data are compared to weekly data on a regular basis. Discrepancies between weekly and monthly data are documented and respondents are called when discrepancies are either large (usually over 300 thousand barrels) or consistent (e.g., weekly data are always lower than monthly data). In addition, a comparison of the data collected on the PSRS with other similar data series from sources outside of the EIA is performed on an ongoing basis. Results of selected data comparisons are published once a year in the feature article, "Comparison of Independent Statistics on Petroleum Supply." Additional comparisons are made between survey data and model results. Data reported in the Petroleum Supply Monthly and Petroleum Supply Annual are routinely imputed to correct for cases where comparison with other data suggests errors in survey data.

(7.) Dissemination

The *PSM* data are normally released within 60 days of the close of the reference month. The *PSM* is available on the web at:

<http://www.eia.gov/petroleum/supply/monthly/>

Much of the *PSM* data are available on the web product, Petroleum Navigator. Petroleum Navigator provides an interface for accessing a comprehensive set of EIA's petroleum data. Features include: downloadable spreadsheets containing complete data history, data tables which "pivot" to present different perspectives, and selection boxes to easily change the product, area, process, period, and unit of measure. Petroleum Navigator can be accessed at: <http://www.eia.gov/petroleum/data.cfm>

C. Derived Data

Due to the time constraints in publishing monthly petroleum supply statistics and the desire to reduce industry response burden, some of the statistics published in the PSM are obtained from sources other than the monthly supply surveys. These other sources include models to data and data from supplemental sources such as the Bureau of the Census.

(1.) Domestic Crude Oil Production

The interim estimate of U.S., PAD District, and state oil production for the current reference month, published in Tables 1 through 26 of the PSM, are based on:

- (a.) crude oil production data from state government agencies and the Department of the Interior, Bureau of Safety and Environmental Enforcement;
- (b.) crude oil production data reported on Form EIA-914, "Monthly Crude Oil, Lease Condensate, and Natural Gas Production Report." For some states, EIA uses current reported data from the state (chiefly Alaska). For the states of Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Gulf of Mexico, EIA calculates an estimate by modeling the relationship between final state-level data from DrillingInfo, a third-party vendor of well-level data collected by state agencies, and data reported on the EIA-914 survey using weighted least squares (WLS) linear regression. Additional explanation of the WLS estimation methodology is available. Estimates have to be made for crude oil production because complete and correct data from states may take from several months to over two years.
- (c.) first purchase data reported on Form EIA-182 "Domestic Crude Oil First Purchase Report." For the remaining states and areas (Alabama, Arizona, Federal Pacific Offshore, Florida, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia) EIA calculates an estimate by using the average lagged ratio (ALR) of the state reported data to EIA-182 data, applied to the current EIA-182 data. Additional explanation of the ALR estimation methodology is available.

State-level production estimates are published in Table 26, "Production of Crude Oil by PAD District and State." Table 26 contains estimates for crude oil production for state and federal offshore areas reported by state agencies and the Bureau of Safety and Environmental Enforcement or estimated by EIA using the ALR or WLS methods discussed above. Every month, the monthly crude oil production estimates are updated in Table 26 of the Petroleum Supply Monthly (<http://www.eia.gov/petroleum/supply/monthly/>) using reports from state agencies and the Bureau of Safety and Environmental Enforcement. The estimates are reported in the Petroleum

Navigator and the Petroleum Supply Monthly roughly 60 days after the production month.

(2.) Exports

The U.S. Bureau of the Census compiles the official U.S. export statistics. Exporters are required to file a "Shipper's Export Declaration Document" with the U.S. Census Bureau. Each month the EIA receives aggregated export statistics from the U.S. Bureau of the Census (EM-522 and EM-594). Census export statistics used in the PSM reflect both government and non-governmental exports of domestic and foreign merchandise from the United States (the 50 States and the District of Columbia) to foreign countries and U.S. possessions, without regard to whether or not the exportation involves a commercial transaction. The following types of transactions are excluded from the statistics:

- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the shipper at the time of exportation. If the shipper does not know the country of ultimate destination, the shipment is credited to the last country to which the shipper knows that the merchandise will be shipped in the same form as it was when exported.

(3.) Movements of crude oil by railroad

The volume of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane moving by railroad is calculated using several data sources including Carload Waybill Sample (CWS) data from the U.S. Surface Transportation Board (STB), data from the National Energy Board of Canada (NEB), data in EIA's Oil and Gas Supply Module (OGSM) within the National Energy Modeling system (NEMS) for data prior to 2015, the EIA-915 survey starting in January 2015, and an estimation procedure developed by EIA for months in which data these data are not available.

Once the data necessary for calculating rail movements become available, which may take as long as 60 days after the end of a calendar quarter, EIA will revise the estimates made.

Movements of crude oil, ethanol, biodiesel, propane, propylene, normal butane, and isobutane by rail are based on EIA analysis of carload data from the STB CWS. Additional data from the NEB, OGSM, and the EIA-915 are used for estimating factors for converting carloads to barrels of crude oil. Carloads of ethanol, biodiesel, propane, propylene, normal butane, and isobutane are converted to barrels using data from the CWS.

Carload data from the STB are available approximately 60 days after the end of each quarter. For example, carload data for the first quarter of each year are typically available by about June 1. Therefore, recent-month rail movements reported by EIA in the Petroleum Supply Monthly and Petroleum Navigator are modeled based on historical rail movement averages, medians, or correlations of rail movements derived from actual carload data with other regional supply data collected by EIA or other sources including field production, imports, refinery and blender inputs, movements other than rail, exports, and supply adjustments.

Estimates of rail movements are subject to revision on a monthly basis as new, more complete, and more accurate data become available. Monthly revisions will typically affect data available through Petroleum Navigator on the EIA web site for the current year and up to two prior years. To the extent that revisions are needed to data more than 2 years in the past, these revisions will be made once a year at the time when Petroleum Navigator tables are updated with final data for a year from the Petroleum Supply Annual. Petroleum Supply Monthly and Petroleum Supply Annual tables released as PDF files will not be revised.

(4.) Stocks of Crude Oil held on Producing Sites (Lease Stocks)

The adjustment for lease stocks was discontinued beginning with PSM data for July 2016 released on September 30, 2016 because EIA discontinued reporting crude oil stocks held on producing sites (lease stocks). The lease stock adjustment remains in all historical EIA lease stocks data.

This adjustment corrects for incomplete survey coverage of companies that store crude oil on leases. Up until 1983, monthly state government data on lease stocks were substituted for EIA data wherever possible in order to rectify the understatement of lease crude oil stocks. State data were available from three states - Texas, New Mexico, and Montana. To calculate the “lease adjustment,” a comparison between EIA reported data and the state government data was made and the difference added to the EIA data for the respective states.

In 1983, the EIA modified the Form EIA-813 to eliminate state data on crude oil stocks and began collecting crude oil stock data by Petroleum Administration for Defense (PAD) District. With this change, the “lease adjustment” could no longer be calculated on a state basis and was changed to a PAD District level. To adjust for this incomplete coverage, 10,300 thousand barrels of crude oil are added to PAD District 3 stocks and 330 thousand barrels are added to PAD District 4 stocks.

(5.) Trans-Alaska Pipeline System (TAPS) Natural Gas Plant Liquids (NGPL Adjustment)

The TAPS-NGPL adjustment corrects for overstatement of crude oil receipts and input at refineries due to NGPL injection into Alaskan crude oil transported in TAPS. Natural gas

processing plants in Alaska produce substantial volumes of NGPL that are added to crude oil transported through TAPS. Refiners have been unable to separate the volume of NGPL from Alaskan crude oil when reporting crude oil receipts and inputs to EIA. The TAPS-NGPL adjustment subtracts Alaskan NGPL production reported by selected gas processing plant operators from crude oil receipts and inputs reported by refiners. Adjusted NGPL production is added to refinery receipts and inputs of NGPL. The adjusted NGPL barrels are allocated to PAD Districts based on the regional distribution of receipts of Alaskan crude oil. Data most affected by the TAPS-NGPL adjustment are receipts and inputs of crude oil in PAD District 5 and receipts, inputs, and product supplied of butane and pentanes plus also in PAD District 5.

NGPL injections into crude oil transported in the TAPS started in 1987. The TAPS-NGPL adjustment was first applied to revised data reported in the Petroleum Supply Annual (PSA) for 1988.

(6.) Finished Motor Gasoline Adjustment

Adjustment quantities for finished motor gasoline are the sum of motor gasoline blending components, fuel ethanol, and methyl tertiary butyl ether (MTBE) adjustments reclassified to finished motor gasoline. Finished motor gasoline adjustment quantities are assumed to reflect gasoline blending activity that was not reported on surveys.

Note on MTBE Adjustment: The MTBE portion of the gasoline adjustment described in this section was only applied to Petroleum Supply Monthly (PSM) data for 2009. The MTBE portion of the gasoline adjustment was discontinued after further examination of the issue made clear the MTBE adjustment was not helpful in forming an accurate statistical representation of U.S. and regional gasoline supplies. The MTBE adjustment was not applied to gasoline supply and disposition data in years prior to 2009, nor was it applied to revised data for 2009 published in the Petroleum Supply Annual or in years after 2009. This note only applies to MTBE adjustments. MTBE blending that was reported on EIA surveys is reflected in U.S. and regional gasoline supply and disposition data. Other adjustments to gasoline supply and disposition data to account for motor gasoline blending components and fuel ethanol remain as described in this section.

- Adjustment quantities for finished reformulated motor gasoline include adjustments for reformulated blendstock for oxygenate blending (RBOB) plus a percentage of gasoline treated as blendstock (GTAB), “other” motor gasoline blending components, fuel ethanol, and MTBE. The quantity of GTAB and “other” motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline is based on the ratio of finished reformulated motor gasoline net production divided by total finished motor gasoline net production reported on surveys by refiners and blenders in each

PAD District. Motor gasoline blending components adjustments reclassified to finished reformulated motor gasoline are further classified as blended with alcohol (i.e. fuel ethanol), blended with ether (i.e. MTBE), or non-oxygenated during 2009.

Starting with data for January 2010, motor gasoline blending component adjustment quantities were classified only as blended with fuel ethanol and “other”. During 2009, RBOB adjustment quantities were classified based on the product description that included reference to the oxygenate to be blended. Beginning with data for January 2010, all RBOB is reported in one product category without reference to specific oxygenates, and all RBOB adjustment quantities are assumed blended with fuel ethanol. During 2009, adjustment quantities for GTAB and “other” motor gasoline blending components reclassified to finished reformulated gasoline were further classified as blended with ether, blended with alcohol, or non-oxygenated based on the ratio of production of these products in reported survey data. After determining adjustment quantities of motor gasoline blending components reclassified to each type of finished reformulated motor gasoline, portions of the fuel ethanol and MTBE adjustments were reclassified to reformulated motor gasoline. The fuel ethanol quantity reclassified to finished reformulated motor gasoline was determined using the ratio of fuel ethanol blended into finished motor gasoline calculated from fuel ethanol blending data reported on survey forms by PAD District. For example, if the calculated volumetric fuel ethanol blend ratio was 10%, then a quantity of the fuel ethanol adjustment sufficient to make a 10% blend with the available motor gasoline blending components is reclassified to finished reformulated motor gasoline, but the quantity of fuel ethanol cannot exceed the total quantity of the fuel ethanol adjustment. During 2009, a similar process was followed for allocating the MTBE adjustment to reformulated motor gasoline except the blend ratio was assumed to be 12% in all PAD Districts. Starting with data for January 2010, the entire MTBE adjustment quantity is assumed to be blended with finished conventional motor gasoline.

- Adjustment quantities for finished conventional motor gasoline include adjustments for conventional blendstock for oxygenate blending (CBOB) plus the portion of GTAB, “other” motor gasoline blending components, fuel ethanol and MTBE adjustments that were not reclassified to finished reformulated motor gasoline. The total adjustment to finished conventional motor gasoline is further classified as finished conventional gasoline blended with fuel ethanol and “other” finished conventional motor gasoline. The quantity of the finished conventional motor gasoline adjustment reclassified as finished conventional motor gasoline blended with fuel ethanol is determined using the quantity of the fuel ethanol adjustment allocated

to finished conventional motor gasoline and the fuel ethanol blend ratio calculated from fuel ethanol blending reported on surveys by PAD District. For example, if the fuel ethanol blend ratio calculated from survey data was 10% in a PAD District, then the total adjustment quantity of finished conventional motor gasoline in that PAD District would be 10 times the fuel ethanol adjustment quantity allocated to finished conventional gasoline (i.e. the adjustment to finished conventional motor gasoline blended with fuel ethanol includes 10% fuel ethanol and 90% gasoline from the motor gasoline blending components adjustment). The MTBE adjustment allocated to finished conventional motor gasoline is simply added to the adjustment for “other” finished conventional motor gasoline.

- Fuel ethanol adjustment quantities frequently exceed the volume of fuel ethanol needed to achieve a blend ratio implied by blending activity reported by refiners and blenders on surveys when considering only the gasoline barrels available from the motor gasoline blending components adjustment. In this case, “other” finished conventional motor gasoline is reclassified by the adjustment to finished conventional motor gasoline blended with alcohol in order to maintain an ethanol blend ratio equal to the fuel ethanol blend ratio reported by refiners and blenders in each PAD District.

(7.) Motor Gasoline Blending Components Adjustment

Adjustment quantities for motor gasoline blending components at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports and renewable fuels and oxygenate plant net production (i.e. motor gasoline blending components use as denaturant for fuel ethanol production). Adjustment quantities by PAD District equal the sum of stock change, refinery and blender net input, and exports minus the sum of imports, renewable fuels and oxygenate plant net production, and net receipts. Motor gasoline blending components adjustments are calculated for reformulated blendstock for oxygenate blending (RBOB), conventional blendstock for oxygenate blending (CBOB), gasoline treated as blendstock (GTAB), and “other” motor gasoline blending components. Product supplied for motor gasoline blending components is assumed to always equal zero because there is no end-user demand for motor gasoline blending components as anything other than finished motor gasoline. Motor gasoline blending components adjustment quantities are assumed to reflect finished motor gasoline blending implied by the supply and disposition balance but not reported on surveys. Adjustment quantities for motor gasoline blending components are reclassified to finished motor gasoline and added to the finished motor gasoline adjustment.

(8.) Renewable Fuels including Fuel Ethanol Adjustment

Adjustment quantities for renewable fuels (including fuel ethanol) at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum

of renewable fuels and oxygenate plant net production and imports. Calculation of adjustment quantities by PAD District depends on the product. Individual products include fuel ethanol, biomass based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). Product supplied for renewable fuels (including fuel ethanol) is assumed equal to zero. Adjustments for fuel ethanol and “other” renewable fuels are discussed separately below.

- Fuel ethanol adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of fuel ethanol between PAD Districts, and so allocation of fuel ethanol adjustments to PAD Districts is based on the ratio of fuel ethanol blending reported on surveys in each PAD District divided by fuel ethanol blending reported on surveys for the entire U.S. In this case, Fuel ethanol implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Fuel ethanol implied net receipts are the balancing item between total supply and disposition in each PAD District. Fuel ethanol adjustment quantities are assumed to reflect blending of fuel ethanol into finished motor gasoline that is implied by the available supply of fuel ethanol but not reported on surveys. Fuel ethanol adjustment volumes are reclassified to finished reformulated motor gasoline and finished conventional motor gasoline through finished motor gasoline adjustments.

- The product category called “renewable fuels except fuel ethanol” includes biomass-based diesel fuel (including biodiesel), “other” renewable diesel fuel, and “other” renewable fuels (e.g. bio-jet fuel). For PSM data prior to January 2012, renewable fuels except fuel ethanol adjustment quantities at the U.S. and PAD District levels were calculated as the sum of stock change, refinery and blender net input, and exports minus imports. Data for production of Renewable Fuels except Fuel Ethanol was unavailable and was excluded from Renewable Fuels and Oxygenate Plant Net Production. Therefore the calculation of adjustments to Renewable Fuels except Fuel Ethanol caused production to be included in the adjustment. Similarly, the calculation caused net inter-PAD District movements (i.e. net receipts) by rail and truck to also be included in adjustments to renewable fuels except fuel ethanol.

- Beginning with PSM data for January 2012, production of biodiesel reported on Form EIA-22M was included under the heading of “renewable fuels and oxygenate plant net production” in petroleum

supply and disposition balances for “renewable fuels except fuel ethanol”. As a result, the adjustment for “renewable fuels except fuel ethanol” no longer includes production of biodiesel. This change will also be made to revised monthly data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

- Biodiesel adjustment quantities at the U.S. level equal the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. There are no survey data available for rail movements of biodiesel between PAD Districts, and so allocation of fuel biodiesel adjustments to PAD Districts is based on the ratio of biomass-based diesel blending reported on surveys in each PAD District divided by biomass-based diesel fuel blending reported on surveys for the entire U.S. Biodiesel implied net receipts are calculated for each PAD District as the sum of stock change, refinery and blender net input, and exports minus the sum of renewable fuels and oxygenate plant net production, imports, and adjustments. Biodiesel implied net receipts are the balancing item between total supply and disposition in each PAD District. Biodiesel adjustment quantities are assumed to reflect blending of biodiesel into distillate fuel oil that is implied by the available supply of biodiesel but not reported as input on surveys. Biodiesel adjustment volumes are reclassified to distillate fuel oil (15 ppm sulfur and under) through distillate fuel oil adjustments.

(9.) Distillate Fuel Oil Adjustment

Adjustment quantities for distillate fuel oil show reclassification by pipeline operators of distillate fuel oil with sulfur content of 15 ppm and under to distillate fuel oil with sulfur content greater than 15 ppm to 500 ppm (inclusive). Reclassification may occur when distillate product with sulfur content of 15 ppm and under becomes mixed with products having higher sulfur content during pipeline transportation, storage, or handling. Adjustment quantities are reported by pipeline operators on Form EIA-812 “Monthly Product Pipeline Report.” This adjustment was discontinued after publication of data for December 2010

Beginning with PSM data for January 2012, distillate fuel oil adjustments equal the opposite of biodiesel adjustments described above in section 7. Biodiesel adjustments are added to distillate fuel oil (15 ppm sulfur and under) and to total distillate fuel oil. Distillate fuel oil adjustment quantities are assumed to reflect biodiesel blending activity implied by biodiesel supply and disposition but not reported on surveys. Distillate fuel oil adjustments for biodiesel will also be added to revised data for January-December 2011 when the 2011 Petroleum Supply Annual is released.

(10.) Crude Oil Adjustment

Adjustment quantities for crude oil are derived to balance crude oil supply and disposition. Crude oil product supplied was equal to crude oil used directly as reported on Form EIA-813 “Monthly Crude Oil Report” in data through December 2009. Reporting crude oil used directly was discontinued on Form EIA-813 after collection of data for December 2009. Crude oil product supplied is assumed equal to zero beginning with data for January 2010. Undercounting crude oil imports in survey data is one example of a typical cause of crude oil adjustments. This results in a positive crude oil adjustment because crude oil disposition (i.e. the sum of stock change, refiner inputs, and exports) will exceed available supply (i.e. the sum of field production and imports) due to import undercounting. Crude oil losses are included in crude oil adjustment quantities. The crude oil adjustment was formerly called unaccounted-for crude oil. The name change was effective with data for January 2005.

(11.) Other Hydrocarbon Adjustment

Adjustment quantities for “other” hydrocarbons equal the sum of stock change, refinery and blender net inputs and exports minus imports. “Other” hydrocarbons product supplied is assumed equal to zero. Adjustment quantities account for “other” hydrocarbons produced outside of refineries. There are no movements data collected on surveys for “other” hydrocarbons. Therefore, adjustment quantities include any net receipts of “other” hydrocarbons resulting from inter-PAD District movements.

(12.) Hydrogen Adjustment

Adjustment quantities for hydrogen equal refinery and blender net input of hydrogen. Hydrogen product supplied is assumed equal to zero. Adjustment quantities account for hydrogen supplied to U.S. refineries from non-refinery sources. There are no movements data collected on surveys for hydrogen. Therefore, adjustment quantities at the PAD District level include any net receipts of hydrogen resulting from inter-PAD District movements.

(13.) Oxygenates (excluding fuel ethanol) Adjustment

Adjustment quantities for oxygenates (excluding fuel ethanol) equal the sum of stock change, refinery and blender net inputs, and exports minus the sum of renewable fuels and oxygenate plant net production and imports. Product supplied for oxygenates (excluding fuel ethanol) is assumed equal to zero. Methyl tertiary butyl ether (MTBE) is the single largest component of oxygenates (excluding fuel ethanol).

3. Quality

A. General Discussion

(1.) Response Rates

The response rate is generally 98 to 100 percent. Average response rates for the monthly and weekly surveys are published in the annual PSM article “Accuracy of Petroleum Supply Data.” Chronic nonrespondents and late filing respondents are contacted in writing and reminded of their requirement to report. Companies that file late or fail to file are subject to criminal fines, civil penalties, and other sanctions as provided by Section 13(i) of the Federal Energy Administration (FEA) Act.

(2.) Non-sampling Errors

There are two types of errors usually associated with data produced from a survey; sampling errors and nonsampling errors. Because the estimates for the monthly surveys are based on a complete census of the frame, there is no sampling error in the data presented. The data, however, are subject to non-sampling errors. Non-sampling errors may arise from a number of sources including: (1) the inability to obtain data from all companies in the frame (non-response) and the method used to account for non-response, (2) response errors, (3) differences in the interpretation of questions or definitions, (4) mistakes in recording or coding of the data obtained from respondents, and (5) other errors of collection, response, coverage, processing, and estimation.

(3.) Resubmissions

Throughout the year, EIA accepts data revisions of monthly data. If a revision to a monthly submission is made after the PSM has been published, it is referred to as a resubmission. The final monthly values for the previous year are published in the PSA. These values reflect all PSM resubmissions and other data corrections. The values contained in the PSA are EIA’s most accurate measure of petroleum supply activity.

(4.) Revision Policy

EIA will publish revised monthly crude oil production estimates going back to the Previously published Petroleum Supply Annual every month in the Petroleum Supply Navigator (<http://www.eia.gov/petroleum/supply/monthly/>). Once a year with the release of the Petroleum Supply Annual, EIA will revise up to 10 years of historical production estimates in the Petroleum Supply Navigator.

B. Data Assessment

The principal objective of the PSRS is to provide an accurate picture of petroleum industry activities and of the availability of petroleum products nationwide from primary distribution channels. The PSM preliminary monthly data serve as leading indicators of the final monthly data published in the PSA. The PSM monthly data are not expected to have the same level of accuracy as the final monthly data published in the PSA. However, the preliminary monthly data are expected to exhibit like trends and product flow characteristic of the final monthly data.

To assess the accuracy of monthly statistics, initial monthly estimates published in the PSM are compared with the final monthly aggregates published in the PSA. Although final monthly data are still subject to error, they have been thoroughly reviewed and edited, they reflect all revisions made during the year, and they are considered to be the most accurate data available. The mean absolute percent error provides a measure of the average revisions relative to the aggregates being measured for a variable. The mean absolute percent error for 2007 monthly data was less than 1 percent for 50 of the 66 major petroleum variables analyzed.

4. Provisions Regarding Disclosure of Information

All PSRS survey forms, with the exception of the Form EIA-814, "Monthly Imports Report," have the same general disclosure information statement. The information reported on Form EIA-814 will be considered "public information" and may be publicly released in company or individually identifiable form, and will not be protected from disclosure in identifiable form.

The information reported on Forms EIA-810 through 813, 815 through 817, 819, and 820 will be protected and not disclosed to the

public to the extent that it satisfies the criteria for exemption under the Freedom of Information Act (FOIA), 5 U.S.C. §552, the Department of Energy (DOE) regulations, 10 C.F.R. §1004.11, implementing the FOIA, and the Trade Secrets Act, 18 U.S.C. §1905. The Federal Energy Administration Act requires the EIA to provide company-specific data to other Federal agencies when requested for official use. The information reported on this form may also be made available, upon request, to another DOE component; to any Committee of Congress, the Government Accountability Office, or other Federal agencies authorized by law to receive such information. A court of competent jurisdiction may obtain this information in response to an order. The information may be used for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Disclosure limitation procedures are not applied to the statistical data published from this survey's information. Thus, there may be some statistics that are based on data from fewer than three respondents, or that are dominated by data from one or two large respondents. In these cases, it may be possible for a knowledgeable person to estimate the information reported by a specific respondent.

In addition to the use of the information by EIA for statistical purposes, the information may be made available, upon request, to other Federal agencies authorized by law to receive such information for any nonstatistical purposes such as administrative, regulatory, law enforcement, or adjudicatory purposes.

Company specific data are also provided to other DOE offices for the purpose of examining specific petroleum operations in the context of emergency response planning and actual emergencies.

Northeast Reserves

Reserves inventories are not considered to be in the commercial sector and are excluded from EIA's commercial motor gasoline and distillate fuel oil supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Northeast Home Heating Oil Reserve classified as ultra-low sulfur distillate (15 parts per million)

Terminal Operator	Location	Thousand Barrels
Buckeye Partners LP	Port Reading, NJ	300
Buckeye Partners LP	Groton, CT	300
Global Companies LLC	Revere, MA	400

Source: U. S. Energy Information Administration

Northeast Regional Refined Petroleum Product Reserve motor gasoline products

Terminal Operator	Location	Thousand Barrels
BP Products North America	Carteret, NJ	200
Buckeye Terminals LLC	Port Reading, NJ	0
Buckeye Terminals LLC	Raritan Bay, NJ	500
Global Companies LLC	Revere, MA	200
South Portland Terminal LLC	South Portland, ME	99

Source: U. S. Energy Information Administration

Other reserves information from the U.S. Department of Energy, Office of Petroleum Reserves can be found at <http://energy.gov/fe/services/petroleum-reserves/>

State of New York's Strategic Fuels Reserve Program

State reserve inventories are also not considered to be in the commercial sector and are excluded from EIA's commercial inventories and are excluded from supply and disposition statistics, such as those reported in the *Weekly Petroleum Status Report*, *Petroleum Supply Monthly*, and *This Week In Petroleum*.

Product	Location	Thousand Barrels
Motor Gasoline Blending Components	NY	87
Fuel Ethanol	NY	10
Distillate Fuel Oil, 15 ppm Sulfur and Under	NY	34

Source: New York State Energy Research & Development Authority

Definitions of Petroleum Products and Other Terms

(Revised May 2010)

Alcohol. The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydroxyl group; $\text{CH}_3\text{-(CH}_2\text{)}_n\text{-OH}$ (e.g., methanol, ethanol, and tertiary butyl alcohol).

Alkylate. The product of an alkylation reaction. It usually refers to the high octane product from alkylation units. This alkylate is used in blending high octane gasoline.

Alkylation. A refining process for chemically combining isobutane with olefin hydrocarbons (e.g., propylene, butylene) through the control of temperature and pressure in the presence of an acid catalyst, usually sulfuric acid or hydrofluoric acid. The product, alkylate, an isoparaffin, has high octane value and is blended with motor and aviation gasoline to improve the antiknock value of the fuel.

All Other Motor Gasoline Blending Components. See Motor Gasoline Blending Components.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Degrees API} = \frac{141.5}{\text{sp. gr. @ } 60^\circ \text{ F}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

Aromatics. Hydrocarbons characterized by unsaturated ring structures of carbon atoms. Commercial petroleum aromatics are benzene, toluene, and xylene (BTX).

Asphalt. A dark-brown-to-black cement-like material containing bitumens as the predominant constituent obtained by petroleum processing; used primarily for road construction. It includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts. Note: The conversion factor for asphalt is 5.5 barrels per short ton.

ASTM. The acronym for the American Society for Testing and Materials.

Atmospheric Crude Oil Distillation. The refining process of separating crude oil components at atmospheric pressure by heating to temperatures of about 600 degrees Fahrenheit to 750 degrees Fahrenheit (depending on the nature of the crude oil and desired products) and subsequent condensing of the fractions by cooling.

Aviation Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating

engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

Aviation Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, reformat, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus. Oxygenates are reported as other hydrocarbons, hydrogen, and oxygenates.

Barrel. A unit of volume equal to 42 U.S. gallons.

Barrels Per Calendar Day. The amount of input that a distillation facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capability of all units at the facility under continuous operation (see **Barrels per Stream Day**) to account for the following limitations that may delay, interrupt, or slow down production:

the capability of downstream facilities to absorb the output of crude oil processing facilities of a given refinery. No reduction is made when a planned distribution of intermediate streams through other than downstream facilities is part of a refinery's normal operation;

the types and grades of inputs to be processed;

the types and grades of products expected to be manufactured;

the environmental constraints associated with refinery operations;

the reduction of capacity for scheduled downtime due to such conditions as routine inspection, maintenance, repairs, and turnaround; and

the reduction of capacity for unscheduled downtime due to such conditions as mechanical problems, repairs, and slowdowns.

Barrels Per Stream Day. The maximum number of barrels of input that a distillation facility can process within a 24-hour period when running at full capacity under optimal crude and product slate conditions with no allowance for downtime.

Benzene (C_6H_6). An aromatic hydrocarbon present in small proportion in some crude oils and made commercially from petroleum by the catalytic reforming of naphthenes in petroleum naphtha. Also made from coal in the manufacture of coke. Used as a solvent, in manufacturing detergents, synthetic fibers, and petrochemicals and as a component of high-octane gasoline.

Biomass-Based Diesel Fuel. Biodiesel and other renewable diesel fuel or diesel fuel blending components derived from biomass, but excluding renewable diesel fuel coprocessed with petroleum

feedstocks.

Blending Components. See *Motor or Aviation Gasoline Blending Components*.

Blending Plant. A facility which has no refining capability but is either capable of producing finished motor gasoline through mechanical blending or blends oxygenates with motor gasoline.

Bonded Petroleum Imports. Petroleum imported and entered into Customs bonded storage. These imports are not included in the import statistics until they are: (1) withdrawn from storage free of duty for use as fuel for vessels and aircraft engaged in international trade; or (2) withdrawn from storage with duty paid for domestic use.

BTX. The acronym for the commercial petroleum aromatics benzene, toluene, and xylene. See individual categories for definitions.

Bulk Station. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of less than 50,000 barrels and receives its petroleum products by tank car or truck.

Bulk Terminal. A facility used primarily for the storage and/or marketing of petroleum products which has a total bulk storage capacity of 50,000 barrels or more and/or receives petroleum products by tanker, barge, or pipeline.

Butane (C_4H_{10}). A normally gaseous straight-chain or branch-chain hydrocarbon extracted from natural gas or refinery gas streams. It includes normal butane and refinery-grade butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Normal Butane (C_4H_{10}). A normally gaseous straight-chain hydrocarbon that is a colorless paraffinic gas which boils at a temperature of 31.1 degrees Fahrenheit and is extracted from natural gas or refinery gas streams.

Refinery-Grade Butane (C_4H_{10}). A refinery-produced stream that is composed predominantly of normal butane and/or isobutane and may also contain propane and/or natural gasoline. These streams may also contain significant levels of olefins and/or fluorides contamination.

Butylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes.

Captive Refinery Oxygenate Plants. Oxygenate production facilities located within or adjacent to a refinery complex.

Catalytic Cracking. The refining process of breaking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic agent and is an effective process for increasing the yield of gasoline from crude oil. Catalytic cracking processes fresh feeds and recycled feeds.

Fresh Feeds. Crude oil or petroleum distillates which are being fed to processing units for the first time.

Recycled Feeds. Feeds that are continuously fed back for additional processing.

Catalytic Hydrocracking. A refining process that uses hydrogen and catalysts with relatively low temperatures and high pressures for converting middle boiling or residual material to high-octane gasoline, reformer charge stock, jet fuel, and/or high grade fuel oil. The process uses one or more catalysts, depending upon product output, and can handle high sulfur feedstocks without prior desulfurization.

Catalytic Hydrotreating. A refining process for treating petroleum fractions from atmospheric or vacuum distillation units (e.g., naphthas, middle distillates, reformer feeds, residual fuel oil, and heavy gas oil) and other petroleum (e.g., cat cracked naphtha, coker naphtha, gas oil, etc.) in the presence of catalysts and substantial quantities of hydrogen. Hydrotreating includes desulfurization, removal of substances (e.g., nitrogen compounds) that deactivate catalysts, conversion of olefins to paraffins to reduce gum formation in gasoline, and other processes to upgrade the quality of the fractions.

Catalytic Reforming. A refining process using controlled heat and pressure with catalysts to rearrange certain hydrocarbon molecules, thereby converting paraffinic and naphthenic type hydrocarbons (e.g., low-octane gasoline boiling range fractions) into petrochemical feedstocks and higher octane stocks suitable for blending into finished gasoline. Catalytic reforming is reported in two categories. They are:

Low Pressure. A processing unit operating at less than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

High Pressure. A processing unit operating at either equal to or greater than 225 pounds per square inch gauge (PSIG) measured at the outlet separator.

Charge Capacity. The input (feed) capacity of the refinery processing facilities.

Coal. A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Commercial Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Conventional Blendstock for Oxygenate Blending (CBOB). See *Motor Gasoline Blending Components*.

Conventional Gasoline. See *Motor Gasoline (Finished)*.

Crude Oil. A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include:

Small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled

with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included;

Small amounts of nonhydrocarbons produced from oil, such as sulfur and various metals;

Drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude oil is considered as either domestic or foreign, according to the following:

Domestic. Crude oil produced in the United States or from its Outer continental shelf as defined in 43 USC 1331.

Foreign. Crude oil produced outside the United States. Imported Athabasca hydrocarbons (tar sands from Canada) are included.

Crude Oil, Refinery Receipts. Receipts of domestic and foreign crude oil at a refinery. Includes all crude oil in transit except crude oil in transit by pipeline. Foreign crude oil is reported as a receipt only after entry through customs. Crude oil of foreign origin held in bonded storage is excluded.

Crude Oil Losses. Represents the volume of crude oil reported by petroleum refineries as being lost in their operations. These losses are due to spills, contamination, fires, etc. as opposed to refinery processing losses.

Crude Oil Production. The volume of crude oil produced from oil reservoirs during given periods of time. The amount of such production for a given period is measured as volumes delivered from lease storage tanks (i.e., the point of custody transfer) to pipelines, trucks, or other media for transport to refineries or terminals with adjustments for (1) net differences between opening and closing lease inventories, and (2) basic sediment and water (BS&W).

Crude Oil Qualities. Refers to two properties of crude oil, the sulfur content and API gravity, which affect processing complexity and product characteristics.

Delayed Coking. A process by which heavier crude oil fractions can be thermally decomposed under conditions of elevated temperatures and pressure to produce a mixture of lighter oils and petroleum coke. The light oils can be processed further in other refinery units to meet product specifications. The coke can be used either as a fuel or in other applications such as the manufacturing of steel or aluminum.

Desulfurization. The removal of sulfur, as from molten metals, petroleum oil, or flue gases. Petroleum desulfurization is a process that removes sulfur and its compounds from various streams during the refining process. Desulfurization processes include catalytic hydrotreating and other chemical/physical processes such

as adsorption. Desulfurization processes vary based on the type of stream treated (e.g., naphtha, distillate, heavy gas oil, etc.) and the amount of sulfur removed (e.g., sulfur reduction to 10 ppm). See **Catalytic Hydrotreating**.

Disposition. The components of petroleum disposition are stock change, crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Distillate Fuel Oil. A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.

No. 1 Distillate. A light petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 1 Diesel Fuel. A light distillate fuel oil that has a distillation temperature of 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high speed diesel engines generally operated under frequent speed and load changes, such as those in city buses and similar vehicles. See **No. 1 Distillate**.

No. 1 Fuel Oil. A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See **No. 1 Distillate**.

No. 2 Distillate. A petroleum distillate that can be used as either a diesel fuel or a fuel oil.

No. 2 Diesel Fuel. A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines that are generally operated under uniform speed and load conditions, such as those in railroad locomotives, trucks, and automobiles. See **No. 2 Distillate**.

Low Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level no higher than 0.05 percent by weight. It is used primarily in motor vehicle diesel engines for on-highway use.

High Sulfur No. 2 Diesel Fuel. No. 2 diesel fuel that has a sulfur level above 0.05 percent by weight.

No. 2 Fuel Oil (Heating Oil). A distillate fuel oil that has a distillation temperature of 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in

atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See **No. 2 Distillate**.

No. 4 Fuel. A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms to ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

No. 4 Diesel Fuel. See **No. 4 Fuel**.

No. 4 Fuel Oil. See **No. 4 Fuel**.

Electricity (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ending Stocks. Primary stocks of crude oil and petroleum products held in storage as of 12 midnight on the last day of the month. Primary stocks include crude oil or petroleum products held in storage at (or in) leases, refineries, natural gas processing plants, pipelines, tank farms, and bulk terminals that can store at least 50,000 barrels of petroleum products or that can receive petroleum products by tanker, barge, or pipeline. Crude oil that is in-transit by water from Alaska, or that is stored on Federal leases or in the Strategic Petroleum Reserve is included. Primary Stocks exclude stocks of foreign origin that are held in bonded warehouse storage.

ETBE (Ethyl tertiary butyl ether) (CH₃)₃COC₂H₅. An oxygenate blend stock formed by the catalytic etherification of isobutylene with ethanol.

Ethane (C₂H₆). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 127.48 degrees Fahrenheit. It is extracted from natural gas and refinery gas streams.

Ether. A generic term applied to a group of organic chemical compounds composed of carbon, hydrogen, and oxygen, characterized by an oxygen atom attached to two carbon atoms (e.g., methyl tertiary butyl ether).

Ethylene (C₂H₄). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes. Ethylene is used as a petrochemical feedstock for numerous chemical applications and the production of consumer goods.

Exports. Shipments of crude oil and petroleum products from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, new supply of other hydrocarbons/oxygenates and motor gasoline blending components, and fuel ethanol blended into finished motor gasoline.

Flexicoking. A thermal cracking process which converts heavy

hydrocarbons such as crude oil, tar sands bitumen, and distillation residues into light hydrocarbons. Feedstocks can be any pumpable hydrocarbons including those containing high concentrations of sulfur and metals.

Fluid Coking. A thermal cracking process utilizing the fluidized-solids technique to remove carbon (coke) for continuous conversion of heavy, low-grade oils into lighter products.

Fresh Feed Input. Represents input of material (crude oil, unfinished oils, natural gas liquids, other hydrocarbons and oxygenates or finished products) to processing units at a refinery that is being processed (input) into a particular unit for the first time.

Examples:

(1.) Unfinished oils coming out of a crude oil distillation unit which are input into a catalytic cracking unit are considered fresh feed to the catalytic cracking unit.

(2.) Unfinished oils coming out of a catalytic cracking unit being looped back into the same catalytic cracking unit to be reprocessed are not considered fresh feed.

Fuel Ethanol (C₂H₅OH). An anhydrous alcohol (ethanol with less than 1% water) intended for gasoline blending as described in Oxygenates definition.

Fuels Solvent Deasphalting. A refining process for removing asphalt compounds from petroleum fractions, such as reduced crude oil. The recovered stream from this process is used to produce fuel products.

Gas Oil. A liquid petroleum distillate having a viscosity intermediate between that of kerosene and lubricating oil. It derives its name from having originally been used in the manufacture of illuminating gas. It is now used to produce distillate fuel oils and gasoline.

Gasohol. A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a concentration of 10 percent or less by volume. Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside carbon monoxide nonattainment areas are included in data on oxygenated gasoline. See **Oxygenates**.

Gasoline Blending Components. Naphthas which will be used for blending or compounding into finished aviation or motor gasoline (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Gasoline Treated as Blendstock (GTAB). See **Motor Gasoline Blending Components**.

Gross Input to Atmospheric Crude Oil Distillation Units. Total input to atmospheric crude oil distillation units. Includes all crude oil, lease condensate, natural gas plant liquids, unfinished oils, liquefied refinery gases, slop oils, and other liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Heavy Gas Oil. Petroleum distillates with an approximate boiling

range from 651 degrees Fahrenheit to 1000 degrees Fahrenheit.

High-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 500 ppm.

Hydrogen. The lightest of all gases, occurring chiefly in combination with oxygen in water; exists also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Idle Capacity. The component of operable capacity that is not in operation and not under active repair, but capable of being placed in operation within 30 days; and capacity not in operation but under active repair that can be completed within 90 days.

Imported Crude Oil Burned As Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residual fuel oil, without being processed as such. Imported crude oil burned as fuel includes lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

Imports. Receipts of crude oil and petroleum products into the 50 States and the District of Columbia from foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Isobutane (C_4H_{10}). A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams.

Isobutylene (C_4H_8). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isohexane (C_6H_{14}). A saturated branch-chain hydrocarbon. It is a colorless liquid that boils at a temperature of 156.2 degrees Fahrenheit.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule without adding or removing anything from the original material. Used to convert normal butane into isobutane (C_4), an alkylation process feedstock, and normal pentane and hexane into isopentane (C_5) and isohexane (C_6), high-octane gasoline components.

Isopentane. See *Natural Gasoline and Isopentane*.

Kerosene. A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil. See *Kerosene-Type Jet Fuel*.

Kerosene-Type Jet Fuel. A kerosene-based product having a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point and a final maximum boiling point of 572 degrees Fahrenheit and meeting ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used for commercial and military turbojet and turboprop aircraft engines.

Commercial. Kerosene-type jet fuel intended for use in commercial aircraft.

Military. Kerosene-type jet fuel intended for use in military aircraft.

Lease Condensate. A mixture consisting primarily of pentanes and heavier hydrocarbons which is recovered as a liquid from natural gas in lease separation facilities. This category excludes natural gas liquids, such as butane and propane, which are recovered at downstream natural gas processing plants or facilities. See *Natural Gas Liquids*.

Light Gas Oils. Liquid Petroleum distillates heavier than naphtha, with an approximate boiling range from 401 degrees Fahrenheit to 650 degrees Fahrenheit.

Liquefied Petroleum Gases (LPG). A group of hydrocarbon-based gases derived from crude oil refining or natural gas fractionation. They include: ethane, ethylene, propane, propylene, normal butane, butylene, isobutane, and isobutylene. For convenience of transportation, these gases are liquefied through pressurization.

Liquefied Refinery Gases (LRG). Liquefied petroleum gases fractionated from refinery or still gases. Through compression and/or refrigeration, they are retained in the liquid state. The reported categories are ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene. Excludes still gas.

Low-Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content greater than 15 ppm to 500 ppm. Low sulfur distillate fuel oil also includes product with sulfur content equal to or less than 15 ppm if the product is intended for pipeline shipment and the pipeline has a sulfur specification below 15 ppm.

Lubricants. Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacture of other products, or used as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Lubricants include all grades of lubricating oils from spindle oil to cylinder oil and those used in greases.

Merchant Oxygenate Plants. Oxygenate production facilities that are not associated with a petroleum refinery. Production from these facilities is sold under contract or on the spot market to refiners or other gasoline blenders.

Methanol (CH_3OH). A light, volatile alcohol intended for gasoline blending as described in Oxygenate definition.

Middle Distillates. A general classification of refined petroleum products that includes distillate fuel oil and kerosene.

Military Kerosene-Type Jet Fuel. See *Kerosene-Type Jet Fuel*.

Miscellaneous Products. Includes all finished products not classified elsewhere (e.g., petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils). Note:

Beginning with January 2004 data, naphtha-type jet fuel is included in Miscellaneous Products.

Motor Gasoline (Finished). A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Motor gasoline, as defined in ASTM Specification D 4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122 to 158 degrees Fahrenheit at the 10 percent recovery point to 365 to 374 degrees Fahrenheit at the 90 percent recovery point. "Motor Gasoline" includes conventional gasoline; all types of oxygenated gasoline, including gasohol; and reformulated gasoline, but excludes aviation gasoline. Volumetric data on blending components, such as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline. Note: E85 is included only in volumetric data on finished motor gasoline production and other components of product supplied.

Conventional Gasoline. Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. Note: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Ed 55 and Lower. Finished conventional motor gasoline blended with a maximum of 55 volume percent denatured fuel ethanol.

Greater than Ed55. Finished conventional motor gasoline blended with denatured fuel ethanol where the volume percent of denatured fuel ethanol exceeds 55%.

OPRG. "Oxygenated Fuels Program Reformulated Gasoline" is reformulated gasoline which is intended for use in an oxygenated fuels program control area.

Oxygenated Gasoline (Including Gasohol). Oxygenated gasoline includes all finished motor gasoline, other than reformulated gasoline, having oxygen content of 2.0 percent or higher by weight. Gasohol containing a minimum 5.7 percent ethanol by volume is included in oxygenated gasoline. Oxygenated gasoline was reported as a separate product from January 1993 until December 2003 inclusive. Beginning with monthly data for January 2004, oxygenated gasoline is included in conventional gasoline. Historical data for oxygenated gasoline excluded Federal Oxygenated Program Reformulated Gasoline (OPRG). Historical oxygenated gasoline data also excluded other reformulated gasoline with a seasonal oxygen requirement regardless of season.

Reformulated Gasoline. Finished gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. It includes gasoline produced to meet or exceed emissions performance and benzene content standards of federal-program reformulated gasoline even though the gasoline

may not meet all of the composition requirements (e.g., oxygen content) of federal-program reformulated gasoline. Note: This category includes Oxygenated Fuels Program Reformulated Gasoline (OPRG). Reformulated gasoline excludes Reformulated Blendstock for Oxygenate Blending (RBOB) and Gasoline Treated as Blendstock (GTAB).

Reformulated (Blended with Alcohol). Reformulated gasoline blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content.

Reformulated (Blended with Ether). Reformulated gasoline blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content.

Reformulated (Non-Oxygenated). Reformulated gasoline without added ether or alcohol components.

Motor Gasoline Blending. Mechanical mixing of motor gasoline blending components, and oxygenates when required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock for oxygenate blending (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. Note: Oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Conventional Blendstock for Oxygenate Blending (CBOB). Conventional gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. CBOB must become conventional gasoline after blending with oxygenates. Motor gasoline blending components that require blending other than with oxygenates to become finished conventional gasoline are reported as All Other Motor Gasoline Blending Components. Excludes reformulated blendstock for oxygenate blending (RBOB).

Gasoline Treated as Blendstock (GTAB). Non-certified Foreign Refinery gasoline classified by an importer as blendstock to be either blended or reclassified with respect to reformulated or conventional gasoline. GTAB was classified on EIA surveys as either reformulated or conventional based on emissions performance and the intended end use in data through the end of December 2009. Designation of GTAB as reformulated or conventional was discontinued beginning with data for January 2010. GTAB was reported as a single product beginning with data for January 2010. GTAB data for January 2010 and later months is presented as conventional

motor gasoline blending components when reported as a subset of motor gasoline blending components.

Reformulated Blendstock for Oxygenate Blending (RBOB). Specially produced reformulated gasoline blendstock intended for blending with oxygenates downstream of the refinery where it was produced. Includes RBOB used to meet requirements of the Federal reformulated gasoline program and other blendstock intended for blending with oxygenates to produce finished gasoline that meets or exceeds emissions performance requirements of Federal reformulated gasoline (e.g., California RBOB and Arizona RBOB). Excludes conventional gasoline blendstocks for oxygenate blending (CBOB).

RBOB for Blending with Alcohol. Motor gasoline blending components intended to be blended with an alcohol component (e.g., fuel ethanol) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

RBOB for Blending with Ether. Motor gasoline blending components intended to be blended with an ether component (e.g., methyl tertiary butyl ether) at a terminal or refinery to raise the oxygen content. RBOB product detail by type of oxygenate was discontinued effective with data for January 2010. Beginning with data for January 2010, RBOB was reported as a single product.

All Other Motor Gasoline Blending Components. Naphthas (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. Includes receipts and inputs of Gasoline Treated as Blendstock (GTAB). Excludes conventional blendstock for oxygenate blending (CBOB), reformulated blendstock for oxygenate blending, oxygenates (e.g. fuel ethanol and methyl tertiary butyl ether), butane, and pentanes plus.

MTBE (Methyl tertiary butyl ether) $(CH_3)_3COCH_3$. An ether intended for gasoline blending as described in Oxygenate definition.

Naphtha. A generic term applied to a petroleum fraction with an approximate boiling range between 122 degrees Fahrenheit and 400 degrees Fahrenheit.

Naphtha Less Than 401° F. See *Petrochemical Feedstocks*.

Naphtha-Type Jet Fuel. A fuel in the heavy naphtha boiling range having an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees Fahrenheit, and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used primarily for military turbojet and turboprop aircraft engines because it has a lower freeze point than other aviation fuels and meets engine requirements at high altitudes and speeds. Note: Beginning with January 2004 data, naphtha-type jet fuel is included in *Miscellaneous Products*.

Natural Gas. A gaseous mixture of hydrocarbon compounds, the primary one being **methane**.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, normal butane, pentanes plus, etc., and to control the quality of natural gas to be marketed.

Natural Gas Liquids. Those hydrocarbons in natural gas that are separated from the gas as liquids through the process of absorption, condensation, adsorption, or other methods in gas processing or cycling plants. Generally such liquids consist of propane and heavier hydrocarbons and are commonly referred to as lease condensate, natural gasoline, and liquefied petroleum gases. Natural gas liquids include natural gas plant liquids (primarily ethane, propane, butane, and isobutane; see *Natural Gas Plant Liquids*) and lease condensate (primarily pentanes produced from natural gas at lease separators and field facilities; see *Lease Condensate*).

Natural Gas Plant Liquids. Those hydrocarbons in natural gas that are separated as liquids at natural gas processing plants, fractionating and cycling plants, and, in some instances, field facilities. Lease condensate is excluded. Products obtained include ethane; liquefied petroleum gases (propane, butanes, propane-butane mixtures, ethane-propane mixtures); isopentane; and other small quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

Natural Gas Processing Plant. Facilities designed to recover natural gas liquids from a stream of natural gas that may or may not have passed through lease separators and/or field separation facilities. These facilities control the quality of the natural gas to be marketed. Cycling plants are classified as gas processing plants.

Natural Gasoline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas, that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane which is a saturated branch-chain hydrocarbon, (C_5H_{12}) , obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Receipts. The difference between total movements into and total movements out of each PAD District by pipeline, tanker, and barge.

Normal Butane. See *Butane*.

OPEC. An intergovernmental organization whose stated objective is to coordinate and unify petroleum policies of member countries. It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969-present), Angola (2007-present), Ecuador (1973-1992 and 2007-present), Gabon (1975-1994 and 2016-present), Indonesia (1962-2008 and 2016-present), Iran (1960-present), Iraq (1960-present), Kuwait (1960-present), Libya (1962-present), Nigeria (1971-present), Qatar (1961-present), Saudi Arabia (1960-present), United Arab Emirates (1967-present), and Venezuela (1960-present).

Operable Capacity. The amount of capacity that, at the beginning of the period, is in operation; not in operation and not under active repair, but capable of being placed in operation within 30 days; or not in operation but under active repair that can be completed within 90 days. Operable capacity is the sum of the operating and idle capacity and is measured in barrels per calendar day or barrels per stream day.

Operable Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operable refining capacity of the units.

Operating Capacity. The component of operable capacity that is in operation at the beginning of the period.

Operating Utilization Rate. Represents the utilization of the atmospheric crude oil distillation units. The rate is calculated by dividing the gross input to these units by the operating refining capacity of the units.

Other Hydrocarbons. Materials received by a refinery and consumed as a raw material. Includes hydrogen, coal tar derivatives and gilsonite. Excludes natural gas used for fuel or hydrogen feedstock.

Other Oils Equal To or Greater Than 401° F. See *Petrochemical Feedstocks*.

Other Oxygenates. Other aliphatic alcohols and aliphatic ethers intended for motor gasoline blending (e.g., isopropyl ether (IPE) or n-propanol).

Oxygenated Gasoline. See *Motor Gasoline (Finished)*.

Oxygenates. Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Fuel Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

Fuel Ethanol. Blends of up to 10 percent by volume anhydrous ethanol (200 proof) (commonly referred to as the “gasohol waiver”).

Methanol. Blends of methanol and gasoline-grade tertiary butyl alcohol (GTBA) such that the total oxygen content does not exceed 3.5 percent by weight and the ratio of methanol to GTBA is less than or equal to 1. It is also specified that this blended fuel must meet ASTM volatility specifications (commonly referred to as the “ARCO” waiver).

Blends of up to 5.0 percent by volume methanol with a minimum of 2.5 percent by volume cosolvent alcohols having a carbon number of 4 or less (i.e., ethanol, propanol, butanol, and/or GTBA). The total oxygen must not exceed 3.7 percent by weight, and the blend must meet ASTM volatility specifications as well as phase separation and alcohol purity specifications (commonly referred to as the “DuPont” waiver).

MTBE (Methyl tertiary butyl ether). Blends up to 15.0 percent by volume MTBE which must meet the ASTM D4814 specifications. Blenders must take precautions that

the blends are not used as base gasolines for other oxygenated blends (commonly referred to as the “Sun” waiver).

Pentanes Plus. A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Persian Gulf. The countries that comprise the Persian Gulf are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

Petrochemical Feedstocks. Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics. The categories reported are “Naphtha Less Than 401° F” and “Other Oils Equal To or Greater Than 401° F.”

Naphtha Less Than 401° F. A naphtha with a boiling range of less than 401 degrees Fahrenheit that is intended for use as a petrochemical feedstock.

Other Oils Equal To or Greater Than 401° F. Oils with a boiling range equal to or greater than 401 degrees Fahrenheit that are intended for use as a petrochemical feedstock.

Petroleum Administration for Defense (PAD) Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts by the Petroleum Administration for Defense in 1950. These districts were originally defined during World War II for purposes of administering oil allocation.

Petroleum Coke. A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Catalyst Coke. In many catalytic operations (e.g., catalytic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. This carbon or coke is not recoverable in a concentrated form.

Marketable Coke. Those grades of coke produced in delayed or fluid cokers which may be recovered as relatively pure carbon. This “green” coke may be sold as is or further purified by calcining.

Petroleum Products. Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Pipeline (Petroleum). Crude oil and product pipelines used to transport crude oil and petroleum products respectively, (including interstate, intrastate, and intracompany pipelines) within the 50 States and the District of Columbia.

Plant Condensate. One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or scrubbers in processing plants.

Processing Gain. The volumetric amount by which total output is greater than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a lower specific gravity than the crude oil processed.

Processing Loss. The volumetric amount by which total refinery output is less than input for a given period of time. This difference is due to the processing of crude oil into products which, in total, have a higher specific gravity than the crude oil processed.

Product Supplied, Crude Oil. Crude oil burned on leases and by pipelines as fuel.

Production Capacity. The maximum amount of product that can be produced from processing facilities.

Products Supplied. Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted for crude oil, (plus net receipts when calculated on a PAD District basis), minus stock change, minus crude oil losses, minus refinery inputs, minus exports.

Propane (C_3H_8). A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of - 43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene (C_3H_6). An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Propylene (C_3H_6) (nonfuel use). Propylene that is intended for use in nonfuel applications such as petrochemical manufacturing. Nonfuel use propylene includes chemical-grade propylene, polymer-grade propylene, and trace amounts of propane. Nonfuel use propylene also includes the propylene component of propane/propylene mixes where the propylene will be separated from the mix in a propane/propylene splitting process. Excluded is the propylene component of propane/propylene mixes where the propylene component of the mix is intended for sale into the fuel market.

Refinery. An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and oxygenates.

Refinery-Grade Butane. See *Butane*.

Refinery Input, Crude Oil. Total crude oil (domestic plus foreign) input to crude oil distillation units and other refinery processing units (cokers, etc.).

Refinery Input, Total. The raw materials and intermediate materials processed at refineries to produce finished petroleum products. They include crude oil, products of natural gas processing plants, unfinished oils, other hydrocarbons and oxygenates, motor gasoline and aviation gasoline blending components and finished petroleum products.

Refinery Production. Petroleum products produced at a refinery or blending plant. Published production of these products equals refinery production minus refinery input. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another product during the same month. Refinery production of unfinished oils, and motor and aviation gasoline blending components appear on a net basis under refinery input.

Refinery Yield. Refinery yield (expressed as a percentage) represents the percent of finished product produced from input of crude oil and net input of unfinished oils. It is calculated by dividing the sum of crude oil and net unfinished input into the individual net production of finished products. Before calculating the yield for finished motor gasoline, the input of natural gas liquids, other hydrocarbons and oxygenates, and net input of motor gasoline blending components must be subtracted from the net production of finished motor gasoline. Before calculating the yield for finished aviation gasoline, input of aviation gasoline blending components must be subtracted from the net production of finished aviation gasoline.

Reformulated Blendstock for Oxygenate Blending (RBOB). See *Motor Gasoline Blending Components*.

Reformulated Gasoline. See *Motor Gasoline (Finished)*.

Renewable Fuels (Other). Fuels and fuel blending components, except biomass-based diesel fuel, renewable diesel fuel, and fuel ethanol, produced from renewable biomass.

Residual Fuel Oil. A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Residuum. Residue from crude oil after distilling off all but the heaviest components, with a boiling range greater than 1000 degrees Fahrenheit.

Road Oil. Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the

most viscous.

Shell Storage Capacity. The design capacity of a petroleum storage tank which is always greater than or equal to working storage capacity. Special Naphthas. All finished products within the naphtha boiling range that are used as paint thinners, cleaners, or solvents. These products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specification D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks are excluded.

Steam (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Gas (Refinery Gas). Any form or mixture of gases produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, propylene, etc. Still gas is used as a refinery fuel and a petrochemical feedstock. The conversion factor is 6 million BTU's per fuel oil equivalent barrel.

Stock Change. The difference between stocks at the beginning of the reporting period and stocks at the end of the reporting period. Note: A negative number indicates a decrease (i.e., a drawdown) in stocks and a positive number indicates an increase (i.e., a buildup) in stocks during the reporting period.

Strategic Petroleum Reserve (SPR). Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Sulfur. A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Supply. The components of petroleum supply are field production, refinery production, imports, and net receipts when calculated on a PAD District basis.

TAME (Tertiary amyl methyl ether) $(CH_3)_2(C_2H_5)COCH_3$. An oxygenate blend stock formed by the catalytic etherification of isoamylene with methanol.

Tank Farm. An installation used by gathering and trunk pipeline companies, crude oil producers, and terminal operators (except refineries) to store crude oil.

Tanker and Barge. Vessels that transport crude oil or petroleum

products. Data are reported for movements between PAD Districts; from a PAD District to the Panama Canal; or from the Panama Canal to a PAD District.

TBA (Tertiary butyl alcohol) $(CH_3)_3COH$. An alcohol primarily used as a chemical feedstock, a solvent or feedstock for isobutylene production for MTBE; produced as a co-product of propylene oxide production or by direct hydration of isobutylene.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking includes gas oil, visbreaking, fluid coking, delayed coking, and other thermal cracking processes (e.g., flexicoking). See individual categories for definition.

Toluene $(C_6H_5CH_3)$. Colorless liquid of the aromatic group of petroleum hydrocarbons, made by the catalytic reforming of petroleum naphthas containing methyl cyclohexane. A high-octane gasoline-blending agent, solvent, and chemical intermediate, base for TNT.

Ultra-Low Sulfur Distillate Fuel Oil. Distillate fuel oil having sulfur content of 15 ppm or lower. Ultra-low sulfur distillate fuel oil that will be shipped by pipeline must satisfy the sulfur specification of the shipping pipeline if the pipeline specification is below 15 ppm. Distillate fuel oil intended for pipeline shipment that fails to meet a pipeline sulfur specification that is below 15 ppm will be classified as low-sulfur distillate fuel oil.

Unaccounted for Crude Oil. Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production plus imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

Unfinished Oils. All oils requiring further processing, except those requiring only mechanical blending. Unfinished oils are produced by partial refining of crude oil and include naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Streams. Mixtures of unsegregated natural gas liquid components excluding those in plant condensate. This product is extracted from natural gas.

United States. The United States is defined as the 50 States and the District of Columbia.

Vacuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique with its relatively low temperatures prevents cracking or decomposition of the charge stock.

Visbreaking. A thermal cracking process in which heavy atmospheric or vacuum-still bottoms are cracked at moderate temperatures to increase production of distillate products and reduce viscosity of the distillation residues.

Wax. A solid or semi-solid material at 77 degrees Fahrenheit consisting of a mixture of hydrocarbons obtained or derived from petroleum fractions, or through a Fischer-Tropsch type process, in

which the straight-chained paraffin series predominates. This includes all marketable wax, whether crude or refined, with a congealing point (ASTM D 938) between 80 (or 85) and 240 degrees Fahrenheit and a maximum oil content (ASTM D 3235) of 50 weight percent.

Working Storage Capacity. The difference in volume between the maximum safe fill capacity and the quantity below which pump suction is ineffective (bottoms).

Xylene ($C_6H_4(CH_3)_2$). Colorless liquid of the aromatic group of hydrocarbons made the catalytic reforming of certain naphthenic petroleum fractions. Used as high-octane motor and aviation gasoline blending agents, solvents, chemical intermediates. Isomers are metaxylene, orthoxylene, paraxylene.